This report was prepared with the assistance of numerous individuals in the Department of Natural Resources and Environmental Control. Any questions or comments regarding this report should be directed to the principal author:

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TRI Coordinator
EPCRA Reporting Program, DNREC
655 South Bay Rd., Suite 5N
Dover, DE 19901
Tel. (302) 739-9405, Fax (302) 739-3106
e-mail: brian.lutes@state.de.us

DNREC MISSION STATEMENT
The mission of the Department of Natural Resources and Environmental Control is to ensure the wise management, conservation, and enhancement of the State’s natural resources, protect public health and the environment, provide quality outdoor recreation, improve the quality of life, and educate the public on historic, cultural, and natural resource use, requirements and issues.

Front Cover: The cover is a map of Delaware showing the location of all TRI facilities reporting in the state for 2013, with the facilities profiles which are featured in this report.
The Facility Profiles provide TRI information specific to each reporting facility in Delaware for 2013. The facility profiles can be accessed through the links that are provided on the TRI Facility Maps on pages 3 and 4 of this document. The following topics/categories are covered in the facility profiles:

**Location/Contact:**

The address, phone number, and public contact are provided to encourage the public to contact the facility if they have any additional questions in regards to the facility operations and their TRI numbers. A map showing the approximate location of the site is also included, which links back to the overall TRI Facility Map.

**Facility Overview:**

This section includes a description of the services and products the facility provides, as well as a description of how the predominant TRI chemicals reported are being used. Activities occurring at the facility that impact their TRI numbers are also discussed.

**2013 TRI Data:**

A table is provided listing the TRI information for each chemical reported at the facility. Chemical information provided includes pounds released on-site to air, water, and land, total pounds transferred off-site, and total pounds of the managed on-site for 2013. It is also noted if the chemical is a known Persistent Bioaccumulative Toxic (PBT) Chemical or if is listed as a carcinogen. PBTs are discussed in more detail on page 19 and Appendix I in the 2013 Delaware TRI Report and carcinogens are discussed in detail on page 25 and Appendix J.

**Graphical Information:**

Six graphs are provided in this section for visual comparisons, if applicable for the facility.

- **On-site Releases by Media:** Bar chart comparing on-site releases for 2013 among air, water, and land categories.
- **On-site Releases by Chemical:** Bar chart comparing total on-site releases for 2013 for the primary chemicals reported by the facility.
- **Total On-site Releases per Year:** Provides a trend graph over the last ten years for total on-site releases to air, water, land reported by the facility.
- **2013 Distribution of Total TRI Waste:** Pie chart showing the percent distribution of how the total TRI waste reported is managed (On-site Releases, Off-site Transfers, and On-site Management).
- **2013 Distribution of Total Off-site Transfers by Category:** Pie chart showing the percent distribution of the total pounds transferred off-site. Off-site transfers include off-site disposal, energy recovery, recycling, public owned treatment works (POTW), and non POTW treatment.
- **2013 Distribution of Total On-site Waste Management by Category:** Pie chart showing the percent distribution of the total pounds managed on-site. On-site management includes on-site treatment, recycling, and energy recovery.
Comparison to Other Delaware TRI Facilities:

This section provides two graphical comparisons for Delaware TRI facilities.

- **2013 On-site Releases: Top 15 Facilities**: Bar chart showing the total on-site releases for the top 15 facilities and a group for all other facilities. The facility is highlighted in red and underlined on the graph. If the facility falls into the bottom third of all facilities for on-site releases in Delaware it is noted. See Appendices C, E, F in the 2013 Delaware TRI Report for further detail for on-site releases.

- **2013 Total TRI Waste Reported: Top 15 Facilities**: Bar chart showing the total waste reported for the top 15 facilities and a grouping for all other facilities. Total waste reported includes waste released on-site, managed on-site, or transferred off-site. The facility is highlighted in red and underlined on the graph. If a facility falls into the bottom third in total waste reported by facilities in Delaware for 2013, it is noted. See Appendices D and G in the 2013 Delaware TRI Report for further detail on off-site transfers and on-site management.

**Notable National Rankings:**

Notable national rankings for the facility are listed based on a search of the preliminary EPA 2013 data set as of September 2014 using EPA’s TRI Explorer. For applicable rankings, the North American Classification Industrial Classification System (NAICS) code for the facility is listed.
AEARO TECHNOLOGIES

LOCATION/CONTACT:
Address: 650 Dawson Drive
Newark, DE 19713
Phone: (302) 286-2415
Contact: Tom Flaherty

FACILITY OVERVIEW:
Aearo Technologies manufactures and converts urethane foams and foam composites with a variety of facings for many industries and uses.

Aearo Technologies has reported since 1987, previously as E.A.R. and Cabot Safety. The facility reported on two chemicals in 2013 (diisocyanates and toluene diisocyanates), with on-site releases only to air. These chemicals are utilized in the process of making the urethane foam and foam composites. The converting operations do not utilize these chemicals. Virtually all of the waste is shipped off-site, with less than 1% being released on-site to air.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>DIISOCYANATES</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>9,367</td>
</tr>
<tr>
<td>TOLUENE DIISOCYANATE (MIXED ISOMERS)</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>14,050</td>
</tr>
<tr>
<td>TOTAL</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>23,417</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

2013 ON-SITE RELEASES BY CHEMICAL

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>POUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE DIISOCYANATE (MIXED ISOMERS)</td>
<td>5</td>
</tr>
<tr>
<td>DIISOCYANATES</td>
<td>2</td>
</tr>
</tbody>
</table>
Aearo Technologies ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

Aearo Technologies ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

**Notable 2013 National Rankings:**

Aearo Technologies ranks 77th in the nation for off-site transfers of diisocyanates (out of 1,259 facilities).

Aearo Technologies ranks 6th in the nation for off-site transfers of toluene diisocyanate (mixed isomers) (out of 141 facilities).
LOCATION/CONTACT:
Address: 538 First State Blvd.
   Newport, DE 19804
Phone: (302) 636-3668
Contact: Renee Lewandowski

FACILITY OVERVIEW:
Agilent Technologies has two main production processes. The primary production process is the manufacturing of various columns (consumables) for liquid chromatography equipment. This process is further broken down into packing production and column production, in which the material within the column is produced and this material is then packed into the column. The second process is identified as Substrate Manufacturing. This operation is comprised of a highly specialized glass cleaning and coating operation that produces glass slides that are shipped to an Agilent facility in Santa Clara, CA where they become microarray scanner slides used for DNA testing. Both processes are complete independent of one another.

Facilities at the Newport site have reported since 1990, previously as Rockland Technologies and Hewlett-Packard Company. Agilent Technologies has reported for the site since 2001. Agilent Technologies reported on three chemicals in 2013, toluene, methanol and acetonitrile. All three chemicals (solvents) are utilized as chemical processing aids and do not remain in the product. All on-site releases of these chemicals are to the air. The majority of wasted is transferred off-site for treatment or energy recovery. Out of the three chemicals, methanol consists of approximately 95% of all on-site releases, while toluene consists of approximately 78% of all off-site transfers. The increase in releases for 2004 was the result from the consolidation of some manufacturing operations from another Agilent facility to the Newport location. Both on-site releases and off-site transfers have remained relatively consistent since 2005. Fluctuations in on-site releases and off-site transfers are directly related to production.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th></th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>AIR</td>
<td>TOTAL</td>
</tr>
<tr>
<td>ACETONITRILE</td>
<td>36</td>
<td>0</td>
<td>0</td>
<td>36</td>
<td></td>
<td>15,558</td>
</tr>
<tr>
<td>METHANOL</td>
<td>1,139</td>
<td>0</td>
<td>0</td>
<td>1,139</td>
<td></td>
<td>37,273</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>19</td>
<td>0</td>
<td>0</td>
<td>19</td>
<td></td>
<td>188,565</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1,194</td>
<td>0</td>
<td>0</td>
<td>1,194</td>
<td></td>
<td>241,396</td>
</tr>
</tbody>
</table>
TRI FACILITY PROFILES

AGILENT TECHNOLOGIES, CONT.

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

2013 ON-SITE RELEASES BY CHEMICAL

TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

2013 DISTRIBUTION OF TOTAL TRI WASTE

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

ON-SITE RELEASES 0%
OFF-SITE TRANSFERS 100%
OFF-SITE MANAGEMENT 0%
ON-SITE RECYCLE 0%
OFF-SITE ENERGY RECOVERY 100%
NON POTW OFF-SITE TREATMENT 0%
OFF-SITE DISPOSAL 0%
POTW 0%

**2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)**

- **DELAWARE CITY REFINERY**
- INDIAN RIVER GENERATING STATION
- DU PONT EDGE MOOR
- FORMOSA PLASTICS
- BASF NEWPORT
- AIR LIQUIDE INDUSTRIAL
- EVRAZ CLAYMONT STEEL
- JUSTIN TANKS
- DU PONT RED LION PLANT
- HANDY TUBE
- HSIC INDUSTRIES
- DENTSPLY WEST PLANT
- AIR LIQUIDE - MEDAL
- ROHM & HAAS B2, B3, B8
- ALL OTHERS

**2013 TOTAL TRI WASTE REPORTED: TOP 15 FACILITIES (IN POUNDS)**

- **DELAWARE CITY REFINERY**
- DUPS NT EDGE MOOR
- INDIAN RIVER GENERATING STATION
- NORAMCO
- JOHNSON CONTROLS BATTERY PLANT
- BASF NEWPORT
- EVRAZ CLAYMONT STEEL
- OREN T CORP
- JOHNSON CONTROLS DISTRIBUTION CENTER
- BALTIMORE ARCOIL
- PERDUE GEORGETOWN
- V&S DELAWARE GALVANIZING
- FORMOSA PLASTICS
- ALL OTHERS

**NOTABLE 2013 NATIONAL RANKINGS:**

Agilent Technologies ranks 72th in the nation for off-site transfers of acetonitrile (out of 141 facilities).

Agilent Technologies ranks 98th in the nation for off-site transfers of toluene (out of 2,222 facilities).
Air Liquide Industrial produces liquified carbon dioxide from a gas stream received from the nearby Delaware City Refinery. The carbon dioxide is used by many industrial and food processing facilities in the region. Air Liquide reported on one chemical, ammonia, for 2013. Ammonia is used as a refrigerant to condense the carbon dioxide. In 2004, 2005, 2010, and 2012 this facility did not meet the minimum reporting threshold for reporting to the TRI program (see Total On-site Releases Per Year Graph on the next page).

### 2013 TRI Data (Reported in Pounds):

<table>
<thead>
<tr>
<th>Chemical</th>
<th>On-Site Releases</th>
<th>Off-Site Transfers</th>
<th>On-Site Management</th>
<th>PBT</th>
<th>Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>Ammonia</td>
<td>17,792</td>
<td>0</td>
<td>0</td>
<td>17,792</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>17,792</td>
<td>0</td>
<td>0</td>
<td>17,792</td>
<td>0</td>
</tr>
</tbody>
</table>

**Graphical Information:**

- **2013 ON-SITE RELEASES BY MEDIA (IN POUNDS):**
  - AIR: 17,792
  - WATER: 0
  - LAND: 0

- **2013 DISTRIBUTION OF TOTAL TRI WASTE:**
  - Off-Site Transfers: 0%
  - On-Site Management: 0%
  - On-Site Releases: 100%

**Location/Contact:**

Address: 4442 Wrangle Hill Road  
Delaware City, DE 19706

Phone: (713)-624-8131

Contact: Wendy D'Attilio
TRI FACILITY PROFILES

AIR LIQUIDE INDUSTRIAL, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)
### 2013 TOTAL TRI WASTE REPORTED: TOP 15 FACILITIES (IN POUNDS)

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>TRI Waste (in pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;DELAWARE CITY REFINERY&quot; <strong>(Included in All Others)</strong></td>
<td>374,471,132</td>
</tr>
<tr>
<td>Dupont Edge Moor</td>
<td></td>
</tr>
<tr>
<td>Air Liquide - Medal</td>
<td></td>
</tr>
<tr>
<td>Rohm &amp; Haas B2, B3, B8</td>
<td></td>
</tr>
<tr>
<td>Indian River Generating Station</td>
<td></td>
</tr>
<tr>
<td>Noramco</td>
<td></td>
</tr>
<tr>
<td>Johnson Controls Battery Plant</td>
<td></td>
</tr>
<tr>
<td>BASF Newport</td>
<td></td>
</tr>
<tr>
<td>Evraz Claymont Steel</td>
<td></td>
</tr>
<tr>
<td>Orient Corp</td>
<td></td>
</tr>
<tr>
<td>Johnson Controls Distribution Center</td>
<td></td>
</tr>
<tr>
<td>Baltimore Aircol</td>
<td></td>
</tr>
<tr>
<td>Perdue Georgetown</td>
<td></td>
</tr>
<tr>
<td>V&amp;S Delaware Galvanizing</td>
<td></td>
</tr>
<tr>
<td>Formosa Plastics</td>
<td></td>
</tr>
<tr>
<td><strong>All Others</strong></td>
<td></td>
</tr>
</tbody>
</table>

**AIR LIQUIDE INDUSTRIAL, CONT.**

**COMPARISON TO OTHER DELAWARE TRI FACILITIES CONT.:**
LOCATION/CONTACT:
Address: 305 Water Street  
Newport, DE 19804
Phone: (302) 225-2137
Contact: Steve Poorman

FACILITY OVERVIEW:
Air Liquide-Medal provides methods to purify and produce gases for a wide range of applications and manufactures hollow fiber membrane systems for air separation/nitrogen generation, carbon dioxide removal and hydrogen purification.

Air Liquide-Medal has reported since 1992. The facility reported five TRI chemicals for 2013, cyclohexane, methanol, n,n-dimethylformamide, n-hexane, and n-methyl-2-pyrrolidone. These chemicals are used as solvents in the fiber production process. The majority of waste is managed on-site and off-site, with less than 0.01% being released on-site to air.

In 2012, on-site releases increased due to increase in cyclohexane usage above the reporting threshold and overall increase in fiber production. The increase in cyclohexane usage is solely due to the nearly doubling of production of fiber used in membranes sold into the aerospace industry used to inert aircraft fuel tanks for safety purposes. In 2013, on-site recycling for methanol and n-hexane increased significantly, resulting from increased production (see Total On-site Releases Per Year Graph on the next page).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>CYCLOHEXANE</td>
<td>954</td>
<td>0</td>
<td>0</td>
<td>954</td>
<td>17,234</td>
</tr>
<tr>
<td>METHANOL</td>
<td>505</td>
<td>0</td>
<td>0</td>
<td>505</td>
<td>86,496</td>
</tr>
<tr>
<td>N,N-DIMETHYLFORMAMIDE</td>
<td>25</td>
<td>0</td>
<td>0</td>
<td>25</td>
<td>25,230</td>
</tr>
<tr>
<td>N-HEXANE</td>
<td>1,925</td>
<td>0</td>
<td>0</td>
<td>1,925</td>
<td>0</td>
</tr>
<tr>
<td>N-METHYL-2-PYRROLIDONE</td>
<td>1,285</td>
<td>0</td>
<td>0</td>
<td>1,285</td>
<td>151,089</td>
</tr>
<tr>
<td>TOTAL</td>
<td>4,694</td>
<td>0</td>
<td>0</td>
<td>4,694</td>
<td>280,049</td>
</tr>
</tbody>
</table>


COMPARISON TO OTHER DELAWARE TRI FACILITIES:

**2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)**

**2013 TOTAL TRI WASTE REPORTED: TOP 15 FACILITIES (IN POUNDS)**

**NOTABLE 2013 NATIONAL RANKINGS:**

Air Liquide-Medal ranks 22th in the nation for on-site recycling of methanol (out of 2,123 facilities).

Air Liquide-Medal ranks 3rd in the nation for on-site recycling of n-hexane (out of 1,266 facilities).

Air Liquide-Medal ranks 45th in the nation for off-site transfers of n-methyl-2-pyrrolidone (out of 385 facilities).
LOCATION/CONTACT:
Address: 18752 Harbeson Road
Harbeson, DE 19951
Phone: (410) 820-2100
Contact: Jim Quinton

FACILITY OVERVIEW:
Allen Harim Foods-Harbeson operates as a poultry processing plant. The facility processes poultry for consumer use and utilizes an on-site wastewater system to treat plant water prior to discharging into a stream.

The facility has reported since 1987, previously as Allen Family Foods. Allen Harim Foods has reported since it purchased the facility in September 2011. For 2013, the facility reported on one chemical, nitrate compounds, on short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) In the wastewater treatment process, water dissociable nitrate compounds are a by-product of the nitrification process.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>NITRATE COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:
TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
LOCATION/CONTACT:
Address: 20799 Allen Road
Seaford, DE 19973
Phone: (410) 820-2100
Contact: Jim Quinton

FACILITY OVERVIEW:
Allen Harim Farms-Seaford operates as a mill facility. The primary function of the mill facility is to receive, process, and combine raw ingredients into a nutritional feed for poultry.

The facility has reported since 2008, previously as Allen Family Foods. Allen Harim Farms has reported since it purchased the facility in September 2011. The facility reported on two chemicals in 2013, manganese compounds and zinc compounds. All chemicals are being reported on the short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) The metal compounds reported are components of a trace mineral additive feed ingredient utilized at the mill.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>MANGANESE COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ZINC COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:
TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
**LOCATION/CONTACT:**

Address: 10281 Amick Drive  
Delmar, DE 19940

Phone: (302) 846-9511

Contact: Jay Wall

**FACILITY OVERVIEW:**

Amick Farms reported under the North American Industrial Classification System (NAICS) as 311119, which covers other animal food manufacturing (except facilities primarily engaged in Custom Grain Grinding for Animal Feed).

Amick Farms has reported since 1995, previously as Allens Milling Company and Delmar Hatchery. The facility reported on three chemicals in 2012, all on short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) The metal compounds reported are used in poultry feed.

**2013 TRI DATA (REPORTED IN POUNDS):**

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th></th>
<th></th>
<th></th>
<th>OFF-SITE TRANSFERS</th>
<th></th>
<th></th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
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<td>LAND</td>
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<td>COPPER COMPOUNDS*</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Reported on short Form A

**GRAPHICAL INFORMATION:**

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
LOCATION/CONTACT:
Address: 1100 Governor Lea Road
Bear, DE 19701
Phone:  (302) 834-2100
Contact: Robert Carini

FACILITY OVERVIEW:
Arlon specializes in the manufacturing of fluoropolymer (PTFE) laminates and ceramic-filled fluoropolymer laminates that are used in frequency-dependent circuit applications such as aircraft radar systems, base station amplifiers and cell tower antennas for wireless telecommunications. Arlon also produces precision calendared silicone rubber coated fabric and specialty extruded self-fusing silicone rubber tapes. These silicone rubber products are used in aerospace, transportation, general industrial, and semiconductor markets commonly for electrical insulation.

Arlon has reported since 1987, previously as Keene. Arlon reported three TRI chemicals, ethylbenzene, xylene and copper, in 2013. Arlon uses xylene as a chemical processing aid in the coating of fiberglass with the silicone rubber dispersion. Ethylbenzene is a component found in many commercial grades of xylene. A vast majority of the solvents used in the coating process is destroyed in the on-site thermal oxidizer system. Copper is used in the antenna assemblies.

On-site release amounts increased significantly in 2004 because of a failure in the heat exchanger in the thermal oxidizers that destroy solvent releases from the coating process. The heat exchanger was repaired in 2005, and the release amount returned to near historical levels the following year (see Total On-site Releases Per Year Graph on the next page).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>TOTAL</td>
</tr>
<tr>
<td>Copper</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>2,200</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>590</td>
<td>0</td>
<td>0</td>
<td>590</td>
<td>750</td>
</tr>
<tr>
<td>Xylene (Mixed Isomers)</td>
<td>2,400</td>
<td>0</td>
<td>0</td>
<td>2,400</td>
<td>3,000</td>
</tr>
<tr>
<td>Total</td>
<td>2,995</td>
<td>0</td>
<td>0</td>
<td>2,995</td>
<td>6,950</td>
</tr>
</tbody>
</table>
NOTABLE 2013 NATIONAL RANKINGS:

Arlon ranks 7th in the on-site treatment of xylene (mixed isomers) for plastic and rubber manufacturing facilities (NAICS 326) (out of 63 facilities).

Arlon ranks 40th in on-site releases of xylene (mixed isomers) for plastic and rubber manufacturing facilities (NAICS 326) (out of 63 facilities).
Baltimore Aircoil reported under the North American Industrial Classification System (NAICS) as 333415, which covers air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing.

Baltimore Air Coil has reported since 2011. The facility reported on three chemicals in 2013, with on-site releases only to air due to welding and laser cutting of metal. The chemicals include chromium, manganese and nickel. The chemicals that are reported are from scrap metal that is shipped off-site for recycling. Virtually all of the waste is shipped off-site for recycling, with less than 1% being released on-site.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>AIR</th>
<th>WATER</th>
<th>LAND</th>
<th>TOTAL</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHROMIUM COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>211,618</td>
<td>0</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>MANGANESE COMPOUNDS</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>125,000</td>
<td>0</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>NICKEL COMPOUNDS</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>241,000</td>
<td>0</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>TOTAL</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>577,618</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2013 ON-SITE RELEASES BY CHEMICAL

- NICKEL COMPOUNDS: 5 pounds
- MANGANESE COMPOUNDS: 5 pounds
- CHROMIUM COMPOUNDS: 0 pounds

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

- AIR: 10 pounds
- WATER: 0 pounds
- LAND: 0 pounds

LOCATION/CONTACT:

Address: 1162 Holly Hill Road
Milford, DE 19963

Phone: (910) 391-7933

Contact: Dale Wagner
**TRI Facility Profiles**

**Baltimore Aircoil, Cont.**

**Graphical Information Cont.:**

**Comparison to Other Delaware TRI Facilities:**

- **2013 Distribution of Total TRI Waste**
  - **On-Site Releases:** 0%
  - **Off-Site Transfers:** 100%
  - **On-Site Management:** 0%

- **2013 Distribution of Total Off-Site Transfers by Category**
  - **Off-Site Disposal:** 0%
  - **PotW:** 0%
  - **Of-Site Recycle:** 100%

**2013 On-Site Releases: Top 15 Facilities (in Pounds)**

- **Delaware City Refinery**
- **Indian River Generating Station**
- **Dow Dupont Edge Moor**
- **Perdue Georgetown Formosa Plastics**
- **Base Newport Air Liquide Industrial**
- **Evrac Claymont Steel**
- **Justin Tanks**
- **Dow Dupont Red Lion Plant**
- **Handy Tube**
- **Hirsh Industries**
- **Dentsply West Plant**
- **Air Liquide - Medal**
- **Roehm & Haas B2, B8**
- **All Others (Baltimore Aircoil Included Here)*

*Baltimore Aircoil ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third...
**NOTABLE 2013 NATIONAL RANKINGS:**

Baltimore Aircoil ranks 43th in the nation for off-site transfers of chromium compounds (out of 1,343 facilities).

Baltimore Aircoil ranks 24th in the nation for off-site transfers of nickel compounds (out of 1,110 facilities).
BASF NEWPORT

LOCATION/CONTACT:
Address: 205 South James Street
        Newport, DE 19804
Phone:  (973)-245-6077
Contact: Maureen Paukert

FACILITY OVERVIEW:
BASF Newport manufactures high performance pigments for the paint, plastic, and printing industries. The Newport site has reported since 1998, previously as CIBA Specialty Chemicals. The Newport Site became part of BASF Corporation in April 2010. For 2013, the facility reported on nine chemicals, with the majority either being treated or recycled on or off-site, with less than 1% being released on-site.

BASF has expanded and modernized the Newport facility, with production almost doubling since 1998. Even with this production increase, the facility has achieved a 67% reduction in on-site releases. Methanol is the primary chemical released on-site. Methanol is utilized in pigment production while also being generated as a co/by-product in some of the same processes. Methanol is managed both on and off-site, with less than 1% being released on-site. The other TRI chemicals used on-site are either raw materials or process aids.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>ANILINE</td>
<td>30</td>
<td>0</td>
<td>0</td>
<td>30</td>
<td>44,116</td>
</tr>
<tr>
<td>BIPHENYL</td>
<td>97</td>
<td>0</td>
<td>0</td>
<td>97</td>
<td>105,037</td>
</tr>
<tr>
<td>CYCLOHEXANE</td>
<td>52</td>
<td>0</td>
<td>0</td>
<td>52</td>
<td>23,836</td>
</tr>
<tr>
<td>METHANOL</td>
<td>21,996</td>
<td>0</td>
<td>0</td>
<td>21,996</td>
<td>586,255</td>
</tr>
<tr>
<td>NITRATE COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>28,822</td>
</tr>
<tr>
<td>NITRIC ACID</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>29,286</td>
</tr>
<tr>
<td>N-METHYL-2-PYRROLIDONE</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>49,782</td>
</tr>
<tr>
<td>P-CHLOROANILINE</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>5,160</td>
</tr>
<tr>
<td>XYLENE (MIXED ISOMERS)</td>
<td>1,094</td>
<td>0</td>
<td>0</td>
<td>1,094</td>
<td>661</td>
</tr>
</tbody>
</table>

TOTAL                | 23,279| 0     | 0    | 23,279| 843,669| 1,232,311|       |

TRI FACILITY PROFILES

BASF NEWPORT, CONT.

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

<table>
<thead>
<tr>
<th>Media</th>
<th>Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR</td>
<td>23,279</td>
</tr>
<tr>
<td>WATER</td>
<td>0</td>
</tr>
<tr>
<td>LAND</td>
<td>0</td>
</tr>
</tbody>
</table>

2013 ON-SITE RELEASES BY CHEMICAL

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Pounds</th>
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</thead>
<tbody>
<tr>
<td>METHANOL</td>
<td>21,996</td>
</tr>
<tr>
<td>XYLENE (MIXED ISOMERS)</td>
<td>1,094</td>
</tr>
<tr>
<td>BIPHENYL</td>
<td>97</td>
</tr>
<tr>
<td>CYCLOHEXANE</td>
<td>52</td>
</tr>
<tr>
<td>ANILINE</td>
<td>30</td>
</tr>
<tr>
<td>ALL OTHERS CHEMICALS</td>
<td>10</td>
</tr>
</tbody>
</table>

TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

<table>
<thead>
<tr>
<th>Year</th>
<th>Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>30,000</td>
</tr>
<tr>
<td>2004</td>
<td>25,000</td>
</tr>
<tr>
<td>2005</td>
<td>20,000</td>
</tr>
<tr>
<td>2006</td>
<td>15,000</td>
</tr>
<tr>
<td>2007</td>
<td>10,000</td>
</tr>
<tr>
<td>2008</td>
<td>5,000</td>
</tr>
<tr>
<td>2009</td>
<td>0</td>
</tr>
<tr>
<td>2010</td>
<td>0</td>
</tr>
<tr>
<td>2011</td>
<td>0</td>
</tr>
<tr>
<td>2012</td>
<td>0</td>
</tr>
<tr>
<td>2013</td>
<td>0</td>
</tr>
</tbody>
</table>

2013 DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTW RECYCLE</td>
<td>30%</td>
</tr>
<tr>
<td>ON-SITE TREATMENT</td>
<td>70%</td>
</tr>
<tr>
<td>OFF-SITE DISPOSAL</td>
<td>0%</td>
</tr>
<tr>
<td>OFF-SITE ENERGY</td>
<td>0%</td>
</tr>
<tr>
<td>OFF-SITE RECYCLE</td>
<td>27%</td>
</tr>
<tr>
<td>NON POTW OFF-SITE TREATMENT</td>
<td>8%</td>
</tr>
</tbody>
</table>

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTW RECYCLE</td>
<td>58%</td>
</tr>
<tr>
<td>OFF-SITE DISPOSAL</td>
<td>0%</td>
</tr>
<tr>
<td>OFF-SITE ENERGY RECOVERY</td>
<td>7%</td>
</tr>
<tr>
<td>OFF-SITE RECYCLE</td>
<td>27%</td>
</tr>
<tr>
<td>NON POTW OFF-SITE TREATMENT</td>
<td>8%</td>
</tr>
</tbody>
</table>
**TRI FACILITY PROFILES**

**BASF NEWPORT, CONT.**

**COMPARISON TO OTHER DELAWARE TRI FACILITIES:**

**2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)**

**2013 TOTAL TRI WASTE REPORTED: TOP 15 FACILITIES (IN POUNDS)**

**NOTABLE 2013 NATIONAL RANKINGS:**

BASF Newport ranks 65th in the nation for off-site transfers of methanol (out of 2,123 facilities).

BASF Newport ranks 58th in the nation for on-site recycling for methanol (out of 2,123 facilities).

BASF Newport ranks 3rd in the nation for off-site transfers of biphenyl (out of 120 facilities).
LOCATION/CONTACT:

Address: 100 Industrial Park Blvd.
Seaford, DE 19973

Phone:  (973)-245-6077

Contact: Maureen Paukert

FACILITY OVERVIEW:

BASF Seaford manufactures emulsion polymers, sometimes referred to as latex, primarily for the printing and packaging industries but also used as additives for paints and coatings. Typical customers include ink and coating manufacturers.

BASF Seaford reported on five TRI chemicals in 2013. Ammonia was the highest on-site release reported, accounting for 78% of all on-site releases. It is used as a reagent to solubilize the resin intermediate prior to polymerization and it is used to adjust pH in the process. The other chemicals reported are utilized primarily as raw materials in the polymerization process.

On-site releases have typically trended with the production level. On-site releases for 2013 were down 36% compared to 2012 and production was down 18%.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>288</td>
</tr>
<tr>
<td>AMMONIA</td>
<td>1,948</td>
<td>0</td>
<td>0</td>
<td>1,948</td>
<td>288</td>
</tr>
<tr>
<td>BUTYL ACRYLATE</td>
<td>146</td>
<td>0</td>
<td>0</td>
<td>146</td>
<td>61</td>
</tr>
<tr>
<td>CERTAIN GLYCOL ETHERS</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>271</td>
</tr>
<tr>
<td>METHYL METHACRYLATE</td>
<td>197</td>
<td>0</td>
<td>0</td>
<td>197</td>
<td>61</td>
</tr>
<tr>
<td>STYRENE</td>
<td>210</td>
<td>0</td>
<td>0</td>
<td>210</td>
<td>78</td>
</tr>
<tr>
<td>TOTAL</td>
<td>2,506</td>
<td>0</td>
<td>0</td>
<td>2,506</td>
<td>759</td>
</tr>
</tbody>
</table>
TRI FACILITY PROFILES

BASF SEAFORD, CONT.

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASSEs BY MEDIA
(IN POUNDS)

2013 ON-SITE RELEASSEs BY CHEMICAL

TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

2013 DISTRIBUTION OF TOTAL TRI WASTE

2013 DISTRIBUTION OF TOTAL OFF-SITE
TRANSFERS BY CATEGORY

2013 DISTRIBUTION OF TOTAL ON-SITE
WASTE MANAGEMENT BY CATEGORY
BASF Seaford ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

**Notable 2013 National Rankings:**

BASF Seaford is ranked 48th in the on-site treatment of methyl methacrylate by chemical facilities (NAICS 325)(out of 166 facilities).
LOCATION/CONTACT:

Address: 1400 E. Lebanon Road
Dover, DE 19901

Phone: (301) 322-6691

Contact: Charlie Raines

FACILITY OVERVIEW:
Carl King distributes heating oil and bulk stores fuel on-site. The operation involves loading petroleum products onto tank wagons and distributing them to customers. The tank wagons are top loaded in a diked area.

Carl King has reported since 1998. The facility reported on three chemicals in 2013, (1,2,4-trimethylbenzene, naphthalene, xylene(mixed isomers)), with all chemicals being reported on the short Form A. These chemicals are found in the fuels that are sold. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 lbs. to be eligible to submit a Form A report.)

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>TRANSFERS</td>
</tr>
<tr>
<td>1,2,4-TRIMETHYLBENZENE*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NAPHTHALENE*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>XYLENE (MIXED ISOMERS)*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
COLOR WORKS

LOCATION/CONTACT:
Address: 251 Edwards Ave
New Castle, DE 19720
Phone: (302)324-8411
Contact: Sean Histed

FACILITY OVERVIEW:
Color Works reported under the North American Industrial Classification System (NAICS) as 332812, which covers metal coating, engraving, and allied services to manufacturers. Color Works reported on one chemical in 2013 manganese. There were no reported on-site releases, with all waste being sent off-site for recycling.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANGANESE</td>
<td>AIR 0 WATER 0 LAND 0 TOTAL 0</td>
<td>1,094</td>
<td>0 NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>0 0 0 0</td>
<td>1,094</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2013 DISTRIBUTION OF TOTAL TRI WASTE

- ON-SITE RELEASES 0%
- OFF-SITE TRANSFERS 100%
- ON-SITE MANAGEMENT 0%

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

- POTW 0%
- OFF-SITE TRANSFERS 0%
- OFF-SITE ENERGY RECOVERY 0%
- OFF-SITE DISPOSAL 0%
- OFF-SITE RECYCLE 100%
Comparison to Other Delaware TRI Facilities:

Color Works ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

Color Works ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.
CRODA

LOCATION/CONTACT:
Address: 315 Cherry Lane
New Castle, DE 19720
Phone: (302) 429-5269
Contact: Robert Touhey

FACILITY OVERVIEW:
Croda manufactures products, known as surfactants, that promote the mixing of oil and water based ingredients in many consumer products, such as baby shampoo, shaving cream, mouthwash, pharmaceuticals, and many other personal care and industrial products.

The facility has reported since 1987, previously as ICI Atlas Point and Uniqema, with Croda International acquiring Uniqema in 2006. Croda reported on six chemicals for 2013. All on-site releases were to air, with the largest being ethylene oxide. The majority of chemicals reported are primarily utilized as ingredients in the facility’s products.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>3,141</td>
</tr>
<tr>
<td>CERTAIN GLYCOL ETHERS</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>3,141</td>
</tr>
<tr>
<td>DIETHANOLAMINE</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>6</td>
<td>41</td>
</tr>
<tr>
<td>ETHYLENE OXIDE</td>
<td>2,432</td>
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<td>0</td>
<td>2,432</td>
<td>0</td>
</tr>
<tr>
<td>METHANOL</td>
<td>652</td>
<td>0</td>
<td>0</td>
<td>652</td>
<td>16,019</td>
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<tr>
<td>NAPHTHALENE</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>420</td>
</tr>
<tr>
<td>PROPYLENE OXIDE</td>
<td>578</td>
<td>0</td>
<td>0</td>
<td>578</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>3,673</td>
<td>0</td>
<td>0</td>
<td>3,673</td>
<td>19,621</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

ON-SITE RELEASES BY MEDIA (IN POUNDS)

<table>
<thead>
<tr>
<th>MEDIA</th>
<th>POUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR</td>
<td>3,673</td>
</tr>
<tr>
<td>WATER</td>
<td>0</td>
</tr>
<tr>
<td>LAND</td>
<td>0</td>
</tr>
</tbody>
</table>

ON-SITE RELEASES BY CHEMICAL

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>POUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYLENE OXIDE</td>
<td>2,432</td>
</tr>
<tr>
<td>METHANOL</td>
<td>16,019</td>
</tr>
<tr>
<td>PROPYLENE OXIDE</td>
<td>578</td>
</tr>
<tr>
<td>DIETHANOLAMINE</td>
<td>6</td>
</tr>
<tr>
<td>CERTAIN GLYCOL ETHERS</td>
<td>3</td>
</tr>
<tr>
<td>NAPHTHALENE</td>
<td>2</td>
</tr>
</tbody>
</table>
GRAPHICAL INFORMATION CONT.: 

**2013 DISTRIBUTION OF TOTAL TRI WASTE**  
- **ON-SITE MANAGEMENT:** 0%  
- **ON-SITE RELEASES:** 16%  
- **OFF-SITE TRANSFERS:** 84%

**2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY**  
- **NON POTW:**  2%  
- **OFF-SITE TREATMENT:**  51%  
- **OFF-SITE ENERGY RECOVERY:**  51%  
- **OFF-SITE DISPOSAL:**  0%  
- **POTW:**  47%

**COMPARISON TO OTHER DELAWARE TRI FACILITIES:**  

**2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)**
**NOTABLE 2013 NATIONAL RANKINGS:**

Croda ranks 26th in the nation for on-site releases of ethylene oxide (out of 115 facilities).

Croda ranks 38th in the nation for on-site releases of propylene oxide (out of 97 facilities).
DELaware City Refinery

Location/Contact:
Address: 4550 Wrangle Hill Road
      Delaware City, DE 19706
Phone: (302)-834-6033
Contact: Lisa Lindsey

Facility Overview:
The Delaware City Refinery refines crude oil into automotive gasoline, diesel fuel, home heating oil, and a variety
of other petroleum and energy products. In June of 2010, the Delaware City Refining Company LLC purchased
the facility from Valero after the refinery had been idled in November 2009. The refinery began restarting process
unit operations in mid-2011 following extensive maintenance activity and is fully operational.

For 2013 the refinery reported on 38 chemicals, with 3 million pounds being released on-site. The largest
contributors were the 2.6 million pounds of nitrate compounds released to water, 257,679 pounds of sulfuric acid
aerosol, and 36,039 pounds of ammonia, accounting for 96% of all on-site releases. Nitrogen, a naturally
occurring compound in all crude oil, is removed during the refining process creating ammonia (NH3), which is
processed at the Sulfur Recovery Unit and residual quantities are treated at the refinery’s wastewater treatment.
This ammonia is treated via nitrification at the treatment plant, creating the nitrate compounds that are released
to water.

Sulfuric acid mist emissions are released from combustion units at the refinery including process heaters, boilers
and combustion turbines. When a sulfur-bearing fuel such as refinery fuel gas is burned, the sulfur is initially
converted to Sulfur dioxide (SO2). Under certain conditions, a small portion of the SO2 converts to Sulfur Trioxide
(SO3). A fraction of the SO3 can undergo a further reaction to form sulfuric acid aerosol. Sulfuric acid mist
emissions vary from year to year.

Aqueous Ammonia is utilized as a reactant for several combustion treatment processes such as the
Selective Catalytic Reduction (SCR) and Selective Non-catalytic Reduction (SNCR), controls that are utilized at the
refinery to reduce NOx emissions from sources such as process heaters, package boilers and the Fluid Coking Unit
CO Boiler. Over 15 million pounds of ammonia is treated on-site, with less than 0.30 percent being released on-
site to air and water.

On-site releases for the refinery are down 17.5% compared to 2012. This was primarily due to the reduction of
nitrate compounds being released to water, which are down 775,029 pounds compared to 2012. Nitrate releases
vary from year to year (see Total On-site Releases Per Year Graph on the next page).

An off-site transfer of asbestos for disposal (125,560 pounds) was recorded in 2013 related to asbestos
remediation and abatement activities performed by the refinery. The disposal of asbestos off-site was down by
470,060 pounds compared to 2011 as higher amounts were generated related to repair and maintenance
activities in preparation of the restart of the refinery.
The refinery reported over 371 million pounds of chemicals managed on-site, via treatment and energy recovery. The largest amount reported was hydrogen sulfide with over 336 million pounds treated on-site. Hydrogen sulfide is a gas that is produced during the petroleum refining process that is treated and converted to elemental sulfur by sulfur recovery processes, a material that is sold for agricultural and chemical manufacturing uses.

**2013 TRI DATA (REPORTED IN POUNDS):**

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>1,2,4-TRIMETHYL BENZENE</td>
<td>1,203</td>
<td>5</td>
<td>0</td>
<td>1,208</td>
<td>0</td>
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<tr>
<td>1,3-BUTADIENE</td>
<td>396</td>
<td>0</td>
<td>0</td>
<td>396</td>
<td>0</td>
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<tr>
<td>2,4-DIMETHYL PHENOL</td>
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<td>179</td>
<td>0</td>
<td>179</td>
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<td>AMMONIA</td>
<td>29,968</td>
<td>6,071</td>
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<td>5</td>
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<td>15</td>
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<td>ASBESTOS (FRIABLE)</td>
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<td>125,560</td>
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<td>CARBON DISULFIDE</td>
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<td>CARBONYL SULFIDE</td>
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<td>0</td>
<td>668</td>
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<tr>
<td>CREOSOTE</td>
<td>467</td>
<td>0</td>
<td>2,646</td>
<td>3,113</td>
<td>17,061</td>
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<td>CREOSOL (MIXED ISOMERS)</td>
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<td>359</td>
<td>0</td>
<td>359</td>
<td>0</td>
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<td>CUMENE</td>
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<td>3,197</td>
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<td>CYANIDE COMPOUNDS</td>
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<td>0</td>
<td>158</td>
<td>0</td>
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<td>CYCLOHEXANE</td>
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<td>1,845</td>
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<td>DIOXIN AND DIOXIN-LIKE COMPOUNDS</td>
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<td>0</td>
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<td>0</td>
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<td>ETHYL BENZENE</td>
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<td>5</td>
<td>0</td>
<td>2,087</td>
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<td>0</td>
<td>1,920</td>
<td>0</td>
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<tr>
<td>HYDROCHLORIC ACID</td>
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<td>0</td>
<td>192</td>
<td>0</td>
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<td>HYDROGEN CYANIDE</td>
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<td>HYDROGEN SULFIDE</td>
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<td>LEAD COMPOUNDS</td>
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<td>59</td>
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<td>2</td>
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<td>5,467</td>
<td>0</td>
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<td>MOLYBDENUM TRIOXIDE</td>
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<td>0</td>
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<td>NAPHTHALENE</td>
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<td>30,090</td>
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<td>NICKEL</td>
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<td>1,709</td>
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<td>2,631,359</td>
<td>0</td>
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<tr>
<td>PHENANTHRENE</td>
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<td>5</td>
<td>0</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>PHENOL</td>
<td>129</td>
<td>179</td>
<td>0</td>
<td>308</td>
<td>0</td>
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<tr>
<td>POLYCYCLIC AROMATIC COMPOUNDS</td>
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<td>0</td>
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<td>PROPYLENE</td>
<td>8,602</td>
<td>0</td>
<td>0</td>
<td>8,602</td>
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<tr>
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<td>0</td>
<td>18</td>
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<tr>
<td>SULFURIC ACID</td>
<td>257,679</td>
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<td>257,679</td>
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<tr>
<td>TETRACHLOROETHYLENE</td>
<td>6</td>
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<td>0</td>
<td>6</td>
<td>0</td>
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<td>TOLUENE</td>
<td>14,178</td>
<td>5</td>
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<td>14,183</td>
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<tr>
<td>XYLENE (MIXED ISOMERS)</td>
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<td>6,012</td>
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<td><strong>TOTAL</strong></td>
<td>400,442</td>
<td>2,640,461</td>
<td>2,646</td>
<td>3,043,549</td>
<td>179,454</td>
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</table>
DELWARE CITY REFINERY, CONT.

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA
(IN POUNDS)

2013 ON-SITE RELEASES BY CHEMICAL

TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

2013 DISTRIBUTION OF TOTAL TRI WASTE

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

2013 DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

### 2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)

<table>
<thead>
<tr>
<th>Facility</th>
<th>Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indian River Generating Station</td>
<td>505,784</td>
</tr>
<tr>
<td>Dupont Edge Moor</td>
<td>382,570</td>
</tr>
<tr>
<td>Perdue Georgetown</td>
<td>293,360</td>
</tr>
<tr>
<td>Formosa Plastics</td>
<td>240,320</td>
</tr>
<tr>
<td>BASF Newport</td>
<td>203,130</td>
</tr>
<tr>
<td>Air Liquide Industrial</td>
<td>199,857</td>
</tr>
<tr>
<td>EVRAZ Claymont Steel</td>
<td>196,983</td>
</tr>
<tr>
<td>Justin Tanks</td>
<td>196,277</td>
</tr>
<tr>
<td>Dupont Red Lion Plant</td>
<td>183,050</td>
</tr>
<tr>
<td>Handytube</td>
<td>183,050</td>
</tr>
<tr>
<td>Hersh Industries</td>
<td>183,050</td>
</tr>
<tr>
<td>Denpsylv West Plant</td>
<td>183,050</td>
</tr>
<tr>
<td>Air Liquide - Medal</td>
<td>183,050</td>
</tr>
<tr>
<td>Rohm &amp; Haas B2, B3, B8</td>
<td>183,050</td>
</tr>
<tr>
<td>All Others</td>
<td>374,471</td>
</tr>
</tbody>
</table>

### 2013 TOTAL TRI WASTE REPORTED: TOP 15 FACILITIES (IN POUNDS)

<table>
<thead>
<tr>
<th>Facility</th>
<th>Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delaware City Refinery</td>
<td>374,471</td>
</tr>
<tr>
<td>Dupont Edge Moor</td>
<td>351,080</td>
</tr>
<tr>
<td>Indian River Generating Station</td>
<td>303,728</td>
</tr>
<tr>
<td>Naramco</td>
<td>257,188</td>
</tr>
<tr>
<td>Johnson Controls Battery Plant</td>
<td>256,942</td>
</tr>
<tr>
<td>BASF Newport</td>
<td>242,673</td>
</tr>
<tr>
<td>EVRAZ Claymont Steel</td>
<td>239,320</td>
</tr>
<tr>
<td>Orent Corp</td>
<td>228,914</td>
</tr>
<tr>
<td>Johnson Controls Distribution Center</td>
<td>228,905</td>
</tr>
<tr>
<td>Baltimore Aircfoil</td>
<td>225,904</td>
</tr>
<tr>
<td>Perdue Georgetown</td>
<td>208,104</td>
</tr>
<tr>
<td>V&amp;S Delaware Galvanizing</td>
<td>208,104</td>
</tr>
<tr>
<td>Formosa Plastics</td>
<td>208,104</td>
</tr>
<tr>
<td>All Others</td>
<td>374,471</td>
</tr>
</tbody>
</table>

### NOTABLE NATIONAL RANKINGS:

Delaware City Refinery ranks 11th in on-site releases to water.

Delaware City Refinery ranks 134th for total on-site releases.

Delaware City Refinery ranks 16th in the nation for on-site releases of nitrate compounds (out of 2,105 facilities).

Delaware City Refinery ranks 1st in the nation for total waste managed and for total on-site treatment of hydrogen sulfide (out of 512 facilities).

Delaware City Refinery ranks 89th in on-site releases of sulfuric acid aerosols (out of 763 facilities).

Delaware City Refinery ranks 5th in off-site transfers of asbestos (friable) (out of 35 facilities).
DENTSPLY LAKEVIEW

LOCATION/CONTACT:
Address: 38 West Clarke Ave.
        Milford, DE 19963
Phone:  (302) 422-4511
Contact: Jesse Bautista

FACILITY OVERVIEW:
The Dentsply International LLC, Caulk Division (Caulk) produces a line of consumable products for the dental industry. These products include dental adhesives, dental impression materials, and restoratives. These products are used in dental maintenance and restoration applications. Caulk’s East Masten Circle facility (Dentsply West) and the West Clarke Avenue facility (Dentsply Lakeview) are located in Milford.

The facility has reported since 1987. For 2013, Dentsply Lakeview reported on one chemical, mercury. Virtually all of their mercury is used in their products or recycled (1,086 pounds recycled), with reported on-site mercury releases to air of 0.31 pounds.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>MERCURY</td>
</tr>
<tr>
<td>MERCURY</td>
<td>0.3</td>
<td>0.0</td>
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<tr>
<td>TOTAL</td>
<td>0.3</td>
<td>0.0</td>
<td>0.0</td>
<td>0</td>
<td>1,086</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

2013 DISTRIBUTION OF TOTAL TRI WASTE
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

Dentsply Lakeview ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

Dentsply Lakeview ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2013 NATIONAL RANKINGS:

Dentsply Lakeview ranks 16th in the nation for off-site transfers of mercury (out of 463 facilities).
DENTSPLY WEST

LOCATION/CONTACT:
Address: 779 E Masten Circle
Milford, DE 19963
Phone: (302) 422-4511
Contact: Jesse Bautista

FACILITY OVERVIEW:
The Dentsply International LLC, Caulk Division (Caulk) produces a line of consumable products for the dental industry. These products include dental adhesives, dental impression materials, and restoratives. These products are used in dental maintenance and restoration applications. Caulk’s East Masten Circle facility (Dentsply West) and the West Clarke Avenue facility (Dentsply Main) are located in Milford.

The facility has reported since 1987. Dentsply West reported three TRI chemicals for 2013, methanol, methyl methacrylate (MMA), and toluene. Methanol is used as a processing aid in the manufacture of polymethacrylates. Methyl methacrylate (MMA) is also used in the manufacture of polymethacrylates. Toluene is used for cleaning. All on-site releases were reported as released to air.

Reported on-site releases have increased significantly since 2004 because of increased production, addition of new equipment, and more accurate reporting methods. In 2005, the facility reported significant increases in on-site releases for toluene and MMA, and the facility reported on-site release of methanol in 2005 for the first time since 2002. This facility did not submit any TRI reports for 2003. For 2013, on-site releases increased 17%, with production increasing 21% (see Total On-site Releases Per Year Graph on the next page).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>METHANOL</td>
</tr>
<tr>
<td>METHYL METHACRYLATE</td>
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<td>0</td>
<td>0</td>
<td>1,607</td>
<td>68</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>278</td>
<td>0</td>
<td>0</td>
<td>278</td>
<td>15,244</td>
</tr>
<tr>
<td>TOTAL</td>
<td>5,584</td>
<td>0</td>
<td>0</td>
<td>5,584</td>
<td>23,245</td>
</tr>
</tbody>
</table>
**DENTSPLY WEST, CONT.**

**Graphical Information:**

**2013 On-Site Releases by Media (in Pounds):**
- Air: 5,584 pounds
- Water: 0 pounds
- Land: 0 pounds

**2013 On-Site Releases by Chemical:***
- Methanol: 3,700 pounds
- Methyl Methacrylate: 1,607 pounds
- Toluene: 278 pounds

**Total On-Site Releases per Year (in Pounds):**
- Air: Graph showing releases from 2003 to 2013.
- Water: Graph showing releases from 2003 to 2013.
- Land: Graph showing releases from 2003 to 2013.

**2013 Distribution of Total TRI Waste:**
- On-Site Management: 0%
- On-Site Releases: 19%
- Off-Site Transfers: 81%

**2013 Distribution of Total Off-Site Transfers by Category:**
- POTW: 1%
- Off-Site Disposal: 0%
- Off-Site Recycle: 0%
- Off-Site Energy Recovery: 99%
- Non POTW Off-Site Treatment: 0%
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

**2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)**

**2013 TOTAL TRI WASTE REPORTED: TOP 15 FACILITIES (IN POUNDS)**

**NOTABLE 2013 NATIONAL RANKINGS:**

Dentsply West ranks 53rd in the nation total on-site releases for miscellaneous manufacturing facilities (NAICS 339) (out of 342 facilities).
LOCATION/CONTACT:

Address: 436 CES/CC 600 Chevron Ave.
   Dover Air Force Base, DE 19902

Phone:  (302) 677-3370

Contact: Jennifer Vallee

FACILITY OVERVIEW:
The Dover Air Force Base (DAFB) is a military installation that falls under the federal facility reporting requirements. DAFB is home to the 436th Airlift Wing, commonly known as the "Eagle Wing" and the 512th Airlift Wing, the Reserve associate, as the "Liberty Wing." Dover houses the C-5 Galaxy and C-17 Globemaster III, large transport military aircraft. Team Dover's mission focus is to safely fix and fly aircraft, prepare and deploy Airmen, move cargo, and return America's fallen heroes with dignity, honor and respect.

Dover Air Force Base (DAFB) has reported to TRI since 2001. For 2013, the facility reported on five chemicals, with all on-site releases being made to air. These chemicals are the by-product of jet fuel being used on DAFB. The reported TRI data is from the fuel utilized by transient aircraft stopping at DAFB, and the depot level maintenance taking place at the Jet Engine Test Cell. Transient vehicles include only vehicles stopping at the installation for fuel or rest, and that have no assigned mission at the facility. Vehicles with an assigned mission at the base fall under the motor-vehicle reporting exemption. On-site releases to air are down by 47% compared to 2012.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>1,2,4-TRIMETHYLBENZENE</td>
<td>57</td>
<td>0</td>
<td>0</td>
<td>57</td>
<td>0</td>
</tr>
<tr>
<td>CUMENE</td>
<td>57</td>
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<td>57</td>
<td>0</td>
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<tr>
<td>ETHYLBENZENE</td>
<td>59</td>
<td>0</td>
<td>0</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>NAPHTHALENE</td>
<td>63</td>
<td>0</td>
<td>0</td>
<td>63</td>
<td>0</td>
</tr>
<tr>
<td>XYLENE (MIXED ISOMERS)</td>
<td>62</td>
<td>0</td>
<td>0</td>
<td>62</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>298</td>
<td>0</td>
<td>0</td>
<td>298</td>
<td>0</td>
</tr>
</tbody>
</table>

Address: 436 CES/CC 600 Chevron Ave.
   Dover Air Force Base, DE 19902

Phone:  (302) 677-3370

Contact: Jennifer Vallee
**Graphical Information:**

- **2013 On-Site Releases by Media (in Pounds)**

  - Air: 298 pounds
  - Water: 0 pounds
  - Land: 0 pounds

- **2013 On-Site Releases by Chemical**

  - Naphthalene: 63 pounds
  - Xylene (Mixed Isomers): 62 pounds
  - Ethylbenzene: 59 pounds
  - Cumene: 57 pounds
  - 1,2,4-Trimethylbenzene: 57 pounds

- **Total On-Site Releases Per Year (in Pounds)**

  - 2013: 780 pounds

- **2013 Distribution of Total TRI Waste**

  - Off-Site Transfers: 0%
  - On-Site Management: 0%
  - On-Site Releases: 100%

**Comparison to Other Delaware TRI Facilities:**

- **2013 On-Site Releases: Top 15 Facilities (in Pounds)**

  - Delaware City Refinery: 3,200,000 pounds
  - Indian River Generating Station: 1,500,000 pounds
  - Dupont Edgewood: 1,000,000 pounds

Dover Air Force Base ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.
DUHADAWAY TOOL AND DIE

LOCATION/CONTACT:
Address: 801 Dawson Drive
Newark, DE 19713
Phone: (302) 366-0113
Contact: John O’Donnell

FACILITY OVERVIEW:
DuHadaway Tool and Die Shop produces precision crafted parts and assemblies for global power generation, automotive, military, and aerospace industries. The facility provides precision machining with the use of horizontal and vertical boring mills, machining centers, lathes, turning centers, electrical discharge machining (EDM), and welding stations.

DuHadaway Tool and Die first filed a TRI report for the 2009 reporting year. The facility was below the reporting thresholds in 2010 and 2011. For 2013, the facility reported on two chemicals, chromium and nickel, with all waste being transferred off-site. Chromium and nickel are present in varying levels in the metals that are used to manufacture parts. The scrap and metal shavings that are the result of the manufacturing process are shipped off-site for recycling.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR  WATER LAND  TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHROMIUM</td>
<td>0    0   0      0   0</td>
<td>10,303</td>
<td>0</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>NICKEL</td>
<td>0    0   0      0   0</td>
<td>7,349</td>
<td>0</td>
<td>NO</td>
<td>YES</td>
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<tr>
<td>TOTAL</td>
<td>0    0   0      0   0</td>
<td>17,652</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 DISTRIBUTION OF TOTAL TRI WASTE:
- On-Site Releases: 0%
- Off-Site Transfers: 100%

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY:
- Off-Site Disposal: 3%
- Off-Site Energy Recovery: 0%
- Off-Site Recycle: 97%
- Non POTW Off-Site Treatment: 0%
Comparison to Other Delaware TRI Facilities:

*DuHadaway Tool and Die ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site. Comparisons only include facilities reporting on Form R.
**LOCATION/CONTACT:**
Address: 104 Hay Road
Edgemoor, DE 19809
Phone: (716) 879-1846
Contact: Peter Ciotta

**FACILITY OVERVIEW:**
DuPont Edge Moor is one of three domestic DuPont facilities that manufacture titanium dioxide, a white pigment that is used in the paint and paper industries. The facility also produces titanium tetrachloride and ferric chloride.

The facility has reported since 1987. For 2013, DuPont Edge Moor reported on 22 TRI chemicals. Carbonyl Sulfide alone accounted for 89% of the total onsite releases for 2013. Carbonyl sulfide is a gas by-product of the titanium dioxide production process, and is produced from the use of sulfur-bearing coke in the process of manufacturing the titanium dioxide from titanium-rich ores. Manganese compounds accounted for 5% of the total on-site releases. Annual releases of manganese compounds can fluctuate with the sources of raw materials the site utilizes. Carbonyl Sulfide (97.2%), hydrochloric acid aerosol (1.9%) and chlorine (0.8%) account for 99.8% of the total on-site releases to air for 2013. Hydrochloric acid is formed as a gas by-product of the titanium dioxide production process and chlorine is utilized as a raw material to manufacture titanium dioxide.

Since 2001, DuPont Edge Moor has reduced dioxin generation by 99% by implementing a capital project and by making process modifications. Over 98.98% (525.37 grams out of 530.75 grams generated) of the dioxins generated are contained within the solid material sent off-site. The remaining 1.02% of dioxins were released on-site to water and air. The on-site releases of Dioxin and Dioxin Like compounds (DLCs 5.39 grams) increased by 4.22 grams in 2013 compared to 2012. This was primarily due to an increase in the releases to water. The DLC in water can change based on process parameters. The dioxins released to water were calculated based on sampling analysis completed as required by the NPDES permit. The majority (93%) of the DLCs released to water reported by DuPont Edge Moor is either a dioxin or furan of the lowest toxicity level.
### 2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>AIR</th>
<th>WATER</th>
<th>LAND</th>
<th>TOTAL</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
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</thead>
<tbody>
<tr>
<td>ARSENIC COMPOUNDS</td>
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<td>131</td>
<td>0</td>
<td>131</td>
<td>1,025</td>
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<td>BARIUM COMPOUNDS</td>
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<td>0</td>
<td>7,003</td>
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<td>0</td>
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<td>231,040</td>
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<td>0</td>
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<td>CHLORINE</td>
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<td>0</td>
<td>969,939</td>
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<td>19</td>
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<td>DIOXIN AND DIOXIN-LIKE COMPOUNDS</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td>1</td>
<td>197</td>
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<td>0</td>
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<td>0</td>
<td>11,027,384</td>
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<td>14,350</td>
<td>759,187</td>
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<tr>
<td>NICKEL COMPOUNDS</td>
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<td>247</td>
<td>9,156</td>
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<td>685</td>
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<tr>
<td>TITANIUM TETRACHLORIDE</td>
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<td>39</td>
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<tr>
<td>TOLUENE</td>
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<tr>
<td>VANADIUM COMPOUNDS</td>
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<td>111</td>
<td>135,665</td>
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<td>NO</td>
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<tr>
<td>ZINC COMPOUNDS</td>
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<td>86</td>
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<td>95</td>
<td>14,374</td>
<td>0</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>237,528</td>
<td>22,030</td>
<td>616</td>
<td>260,174</td>
<td>1,119,221</td>
<td>13,267,448</td>
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</tr>
</tbody>
</table>

**GRAPHICAL INFORMATION:**

#### 2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

<table>
<thead>
<tr>
<th>Media</th>
<th>Releases (in Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR</td>
<td>237,528</td>
</tr>
<tr>
<td>WATER</td>
<td>22,030</td>
</tr>
<tr>
<td>LAND</td>
<td>616</td>
</tr>
</tbody>
</table>

#### 2013 ON-SITE RELEASES BY CHEMICAL

- CARBONYL SULFIDE: 231,040
- MANGANESE COMPOUNDS: 14,350
- BARIUM COMPOUNDS: 7,003
- HYDROCHLORIC ACID: 4,026
- CHLORINE: 1,961
- ALL OTHER CHEMICALS: 1,795
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

- **DUPONT EDGE MOOR, CONT.**

**TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)**

- **2013 DISTRIBUTION OF TOTAL TRI WASTE**
  - **ON-SITE RELEASES** 2%
  - **OFF-SITE TRANSFERS** 8%
  - **ON-SITE MANAGEMENT** 90%

**2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY**

- **OFF-SITE DISPOSAL** 100%
- **OFF-SITE TREATMENT** 100%
- **OFF-SITE ENERGY RECOVERY** 0%
- **NON POTW** 0%
- **POTW** 0%
- **OFF-SITE RECYCLE** 0%

**2013 DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY**

- **ON-SITE RECYCLE** 0%
- **ON-SITE TREATMENT** 100%
- **ON-SITE ENERGY RECOVERY** 0%

**2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)**

- **DELAWARE CITY REFINERY**
- **DUPONT EDGE MOOR**
- **INDIAN RIVER GENERATING STATION**
- **PERDUE GEORGETOWN**
- **FORMOSA PLASTICS**
- **BASF NEWPORT**
- **AIR LIQUIDE INDUSTRIAL**
- **EVRAZ CLAYMONT STEEL**
- **JUSTIN TANKS**
- **DUPONT RED LION PLANT**
- **HANDY TUBE**
- **HIRSH INDUSTRIES**
- **DENTSPLY WEST PLANT**
- **AIR LIQUIDE MEDAL**
- **ROHM & HAAS B2, B3, B6**
- **ALL OTHERS**
**TRI FACILITY PROFILES**

**DUPONT EDGE MOOR, CONT.**

**COMPARISON TO OTHER DELAWARE TRI FACILITIES CONT.:**

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>2013 TRI Waste Reported (in Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dupont Edge Moor</td>
<td>374,471,132</td>
</tr>
<tr>
<td>Air Liquide - Medal</td>
<td></td>
</tr>
<tr>
<td>Rohm &amp; Haas B2, B3, B8</td>
<td></td>
</tr>
<tr>
<td>Noramco</td>
<td></td>
</tr>
<tr>
<td>Johnson Controls Battery Plant</td>
<td></td>
</tr>
<tr>
<td>BASF Newport</td>
<td></td>
</tr>
<tr>
<td>Evraz Claymont Steel</td>
<td></td>
</tr>
<tr>
<td>Orient Corp</td>
<td></td>
</tr>
<tr>
<td>Johnson Controls Distribution Center</td>
<td></td>
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<tr>
<td>Baltimore Aircoil</td>
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<tr>
<td>Perdue Georgetown</td>
<td></td>
</tr>
<tr>
<td>V&amp;S Delaware Galvanizing</td>
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</tr>
<tr>
<td>Formosa Plastics</td>
<td></td>
</tr>
<tr>
<td>All Others</td>
<td></td>
</tr>
</tbody>
</table>

**2013 TOTAL TRI WASTE REPORTED: TOP 15 FACILITIES (IN POUNDS)**

**NOTABLE 2013 NATIONAL RANKINGS:**

DuPont Edge Moor ranks 14th in the nation for on-site release of carbonyl sulfide (out of 135 facilities).

DuPont Edge Moor ranks 16th in the nation for on-site treatment of hydrochloric acid aerosols (out of 1,107 facilities).

DuPont Edge Moor ranks 9th in the nation for on-site treatment of titanium tetrachloride (out of 33 facilities).
Tri FACILITY PROFILES

DUPONT RED LION

LOCATION/CONTACT:
Address: 766 Governor Lea Road
               Delaware City, DE 19706
Phone: (302) 999-6493
Contact: Kristin Cecil

FACILITY OVERVIEW:
DuPont Red Lion, located north of the Delaware City Refinery (DCR), manufactures sulfuric acid derived from refinery gas received from DCR and spent sulfuric acid received from DCR and other refineries. The refinery gas is received by pipeline. Spent sulfuric acid and fresh sulfuric acid are shipped to and from the DuPont facility via pipeline, tank trucks and tank cars.

DuPont Red Lion has reported since 2005. The facility reported on four chemicals in 2013, hydrazine, hydrazine sulfate, hydrogen sulfide, and sulfuric acid. Hydrogen sulfide is used in the manufacturing process as a raw material. Hydrazine hydrate and hydrazine sulfate are used as process treatment chemicals.

All on-site releases were to air. For 2010, while the Delaware City Refinery was idle, the DuPont Red Lion facility was also idled and was below the TRI reporting threshold for sulfuric acid and was not required to report. The DuPont Red Lion facility re-started its operations in May of 2011 after an 18 month shutdown. In 2012, the DuPont facility was operational at more typical production rates for the entire year as compared to 7 months in 2011. For 2013, on-site releases increased slightly corresponding with an increase in production of 16% (see Total On-site Releases Per Year Graph on the next page).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDRAZONE</td>
<td>0 0 0 0</td>
<td>0</td>
<td>0</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
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<td>NO</td>
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<tr>
<td>HYDROGEN SULFIDE</td>
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<tr>
<td>SULFURIC ACID</td>
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<td>0</td>
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<tr>
<td>TOTAL</td>
<td>9,325 0 0 9,325</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
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</table>
Dupont Red Lion ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

**NOTABLE NATIONAL RANKINGS**

Dupont Edge Moor ranks 51st in the nation for on-site releases of sulfuric acid aerosol for chemical facilities (NAICS 325) (out of 112 facilities).
LOCATION/CONTACT:
Address: 200 Hay Road
           Wilmington, DE 19809
Phone: (713) 830-8833
Contact: Norma Dunn

FACILITY OVERVIEW:
The Calpine Edge Moor/Hay Road facilities are located along the Delaware River a mile north of the Port of Wilmington and produce electricity. Pepco Holdings, Inc. (PHI) sold the generation assets owned by Conectiv Energy to Calpine Corporation in 2010. Based in Houston, Texas, Calpine Corporation is an electricity generating company and converted the Edge Moor, DE and Deepwater, NJ plants to burning natural gas exclusively. All coal combustion was discontinued in 2010. The ceasing of burning coal, has significantly reduced releases on-site made by the facility.

For 2013, the facility reported on 4 chemicals, ammonia, mercury, polycyclic aromatic compounds (PACs) and dioxin and dioxin like compounds (DLCs), with the on-site releases only to air. All the chemicals released except ammonia are formed as by-products during combustion process due to impurities in the fuel. Ammonia is utilized at the facilities for pollution control.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>MERCURY</td>
<td>17</td>
<td>0</td>
<td>0</td>
<td>17</td>
<td>0</td>
</tr>
<tr>
<td>POLYCYCLIC AROMATIC COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>760</td>
<td>0</td>
<td>0</td>
<td>760</td>
<td>30</td>
</tr>
</tbody>
</table>


GRAPHICAL INFORMATION:

**2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)**

<table>
<thead>
<tr>
<th>Media</th>
<th>0</th>
<th>200</th>
<th>400</th>
<th>600</th>
<th>80</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>760</td>
</tr>
<tr>
<td>WATER</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>LAND</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**2013 ON-SITE RELEASES BY CHEMICAL**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMMONIA</td>
<td>743</td>
</tr>
<tr>
<td>MERCURY</td>
<td>0</td>
</tr>
<tr>
<td>POLYCYCLIC AROMATIC...</td>
<td>0</td>
</tr>
<tr>
<td>DIOXIN AND DIOXIN-LIKE...</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

**TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)**

- **TOTAL**
- **AIR**
- **WATER**
- **LAND**

**2013 DISTRIBUTION OF TOTAL TRI WASTE**

- **OFF-SITE TRANSFERS** 4%
- **ON-SITE MANAGEMENT** 96%

**2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY**

- **NON POTW** OFF-SITE RECYCLE 0%
- **OFF-SITE ENERGY RECOVERY** 0%
- **OFF-SITE DISPOSAL** 0%

**POTW** 100%
**Comparison to Other Delaware TRI Facilities:**

**Notable 2013 National Rankings:**

Edge Moor-Hay Road Energy Centers ranks 26 for on-site releases of mercury from electric utility facilities (NAICS code 2211) (out of 39 facilities).
EVRAZ CLAYMONT

LOCATION/CONTACT:
Address: 4001 Philadelphia Pike
Claymont, DE 19703
Phone: (302)-792-5400
Contact: Tomasz Wesolowski

FACILITY OVERVIEW:
Evraz Claymont Steel (ECS) manufactures high strength low alloy carbon steel plate for heavy construction and industrial applications. The facility purchases and recycles up to 500,000 tons of scrap steel annually and melts it in an electric arc furnace making this facility the largest metal recycler in the state of Delaware. The melted steel is cast into large slabs which are rolled into plates of thicknesses from 1/4” to 5-1/2”. The plates are sold throughout North America.

ECS has reported since 1989, previously as CitiSteel. For 2013, ECS reported on-site releases of eight TRI chemicals; seven metallic compounds and dioxin compounds, for 2013. The majority of waste is shipped off-site for recycling and most of the on-site releases were to land.

A consent decree was entered into between DNREC and ECS in 2010 requiring ECS to maintain its participation in the mercury pollution prevention program. Also, the consent decree required the upgrades to the Air pollution Control System (installation of additional baghouse capacity) to minimize air pollutants release by capturing and collecting air pollutants (dust) from certain operations in the melt shop area, including the electric arc furnace, stir station, and ladle reheat operation. This work was completed in 2013.

The plant ceased operations at the end of 2013.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>CHROMIUM COMPOUNDS</td>
<td>76</td>
<td>3</td>
<td>147</td>
<td>226</td>
<td>20,170</td>
</tr>
<tr>
<td>COPPER COMPOUNDS</td>
<td>93</td>
<td>53</td>
<td>369</td>
<td>515</td>
<td>24,038</td>
</tr>
<tr>
<td>DIOXIN AND DIOXIN-LIKE COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>LEAD COMPOUNDS</td>
<td>250</td>
<td>54</td>
<td>53</td>
<td>357</td>
<td>112,603</td>
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<tr>
<td>MANGANESE COMPOUNDS</td>
<td>293</td>
<td>15</td>
<td>9,853</td>
<td>10,161</td>
<td>192,775</td>
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<tr>
<td>MERCURY COMPOUNDS</td>
<td>93</td>
<td>0</td>
<td>0</td>
<td>93</td>
<td>2</td>
</tr>
<tr>
<td>NICKEL COMPOUNDS</td>
<td>20</td>
<td>20</td>
<td>264</td>
<td>304</td>
<td>3,448</td>
</tr>
<tr>
<td>ZINC COMPOUNDS</td>
<td>1,545</td>
<td>161</td>
<td>219</td>
<td>1,925</td>
<td>1,489,573</td>
</tr>
<tr>
<td>TOTAL</td>
<td>2,370</td>
<td>306</td>
<td>10,905</td>
<td>13,581</td>
<td>1,842,609</td>
</tr>
</tbody>
</table>
**Evraz Claymont Steel, Cont.**

Comparison to Other Delaware TRI Facilities:

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>2013 On-Site Releases: Top 15 Facilities (in Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delaware City Refinery</td>
<td><strong>DELAWARE CITY REFINERY</strong></td>
</tr>
<tr>
<td>Indian River Generating Station</td>
<td>DOW TANKS</td>
</tr>
<tr>
<td>Dupont Edge Moor</td>
<td>BASF NEWPORT</td>
</tr>
<tr>
<td>Perdue Georgetown</td>
<td>AIR LIQUIDE INDUSTRIAL</td>
</tr>
<tr>
<td>Formosa Plastics</td>
<td>Formosa Plastics</td>
</tr>
<tr>
<td>Dupont Red Lion Plant</td>
<td>HANDY TUBE</td>
</tr>
<tr>
<td>Hirsch Industries</td>
<td>HIRSH INDUSTRIES</td>
</tr>
<tr>
<td>Dentsply West Plant</td>
<td>JUSTIN TANKS</td>
</tr>
<tr>
<td>Formosa Plastics</td>
<td>EVRAZ CLAYMONT STEEL</td>
</tr>
<tr>
<td>V&amp;S Delaware Galvanizing</td>
<td>EnviroServe</td>
</tr>
<tr>
<td>Johnson Controls Battery Plant</td>
<td>ORIENT CORP</td>
</tr>
<tr>
<td>Noramco</td>
<td>Evraz Claymont Steel</td>
</tr>
<tr>
<td>Johnson Controls Distribution Center</td>
<td>Noramco</td>
</tr>
<tr>
<td>Baltimore Aircol</td>
<td>EnviroServe</td>
</tr>
<tr>
<td>Perdue Georgetown</td>
<td>EnviroServe</td>
</tr>
</tbody>
</table>

**2013 National Rankings:**

Evraz Claymont Steel ranks 21 for on-site releases of manganese compounds by primary metals facilities (NAICS code 331) (out of 243 facilities).

Evraz Claymont Steel ranks 85th in the nation for off-site transfers of zinc compounds (out of 2,987 facilities).
LOCATION/CONTACT:

Address: 780 Schoolhouse Road
Delaware City, DE 19706

Phone: (302)-836-2256

Contact: Kimberly Bennett

FACILITY OVERVIEW:

Formosa Plastics, located in the Delaware City complex, produces polyvinyl chloride (PVC) resin for bulk sale to other industries that produce PVC based products, such as containers, flooring, carpet backing, upholstery, toys, and gloves.

The facility has reported since 1987. Formosa reported on four TRI chemicals for 2013; vinyl acetate monomer, vinyl chloride monomer, ammonia, and dioxins and dioxin-like compounds. Vinyl acetate monomer (VAM) is a raw material used in certain products and is released through the drying process. Vinyl chloride monomer (VCM) is the primary ingredient for producing PVC and is released as residual unreacted monomer during the drying process of the PVC resin. Permits regulate the concentration of the residual monomer in the PVC before drying. Ammonia is also used in several of Formosa's products and is released during the PVC drying process. Trace amounts of dioxins and dioxin-like compounds were detected in the plant emissions (0.000011 pounds) and waste and recycled solids (0.000143 pounds), possibly the result of on-site incineration of waste gases. Scrubber water from the incinerator is processed by the wastewater treatment system.

For 2013, total on-site releases were down by 41%, compared to 2012 (see Total On-site Releases Per Year Graph on the next page). These reductions were primarily the result of a decrease in production, as well as adjustments that were made in the calculations for vinyl acetate.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>AMMONIA</td>
<td>1,485</td>
<td>0</td>
<td>0</td>
<td>1,485</td>
<td>0</td>
</tr>
<tr>
<td>DIOXIN AND DIOXIN-LIKE COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>VINYL ACETATE</td>
<td>40,740</td>
<td>0</td>
<td>0</td>
<td>40,740</td>
<td>0</td>
</tr>
<tr>
<td>VINYL CHLORIDE</td>
<td>47,277</td>
<td>0</td>
<td>0</td>
<td>47,277</td>
<td>147</td>
</tr>
<tr>
<td>TOTAL</td>
<td>89,502</td>
<td>0</td>
<td>0</td>
<td>89,502</td>
<td>147</td>
</tr>
</tbody>
</table>
### 2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

- **Air**: 89,502 pounds
- **Water**: 0 pounds
- **Land**: 0 pounds

### 2013 ON-SITE RELEASES BY CHEMICAL

- **Vinyl Chloride**: 47,277 pounds
- **Vinyl Acetate**: 40,740 pounds
- **Ammonia**: 1,485 pounds
- **Dioxin and Dioxin-like Compounds**: 0 pounds

### TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

- 2003: 110,000 pounds
- 2004: 180,000 pounds
- 2005: 150,000 pounds
- 2006: 120,000 pounds
- 2007: 90,000 pounds
- 2008: 60,000 pounds
- 2009: 30,000 pounds
- 2010: 15,000 pounds
- 2011: 10,000 pounds
- 2012: 5,000 pounds
- 2013: 2,000 pounds

### 2013 DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY

- **Off-Site Disposal**: 18%
- **Off-Site Treatment**: 0%
- **Off-Site Recycling**: 82%
- **Non-POTW Off-Site Transfer**: 0%
- **POTW Off-Site Transfer**: 0%
- **On-Site Recycle**: 0%
- **On-Site Energy Recovery**: 0%
- **On-Site Treatment**: 100%
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

NOTABLE 2013 NATIONAL RANKINGS:

Formosa Plastics ranks 3 in the nation for on-site releases of vinyl chloride (out of 41 facilities).

Formosa Plastics ranks 11 in the nation for on-site releases of vinyl acetate (out of 153 facilities).

Formosa Plastics ranks 14 in the nation for on-site treatment of vinyl chloride (out of 41 facilities).
FUJI FILMS

LOCATION/CONTACT:
Address: 233 Cherry Lane  
New Castle, DE 19720  
Phone: (302) 472-1257  
Contact: Maureen Concordia

FACILITY OVERVIEW:
Fuji Film Imaging Colorants, Inc. produces both purified dye or inks, as well as several raw material intermediates used in the manufacture of dyes and inks. The processes are essentially a series of physical chemical steps involving no complex chemical reactions (i.e. exothermic) requiring significant process safety precautions.

The facility has reported since 1993, previously as Avecia. Fuji Film reported on one chemical in 2013, nitrate compounds on short Form A. The nitrate compounds are added into a vessel with other chemicals to make aqueous ink formulations. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.)

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASERS</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>NITRATE COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:
TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
GAC SEAFORD

LOCATION/CONTACT:
Address: 25938 Nanticoke Street
Seaford, DE 19973
Phone: (813) 248-2101
Contact: Michael Thrasher

FACILITY OVERVIEW:
GAC Seaford manufactures asphalt based roof and driveway coatings and repair products. The products are manufactured in a batch process then filled into retail sized containers. The products are palletized and shipped to retail chains across the northeast.

The facility has reported since 1988. GAC Seaford reported one chemical in 2013, trimethylbenzene, on short form A. Trimethylbenzene is listed as a minor/trace component of Mineral Spirits on some supplier material safety data sheets. Mineral Spirits is used to thin asphalt to make it flowable at ambient temperatures so it can be used as a cold process coating, sealant, or adhesive in finished products. Mineral spirits is not a generated waste at the site. Any unused mineral spirits from a previous batch is reworked into the next process batch. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.)

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>1,2,4-TRIMETHYLBENZENE*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
LOCATION/CONTACT:

Address: 124 Vepco Boulevard
Camden, DE 19934

Phone: (302)-697-9521

Contact: John Coates

FACILITY OVERVIEW:
Handy Tube Corporation specializes in the production of seamless stainless steel coiled and straight length tubing. These tubes are produced for numerous Applications in the Petrochemical, Oil and Gas, Subsea and Downhole, Geothermal, Chromatography, Flow Measurement and Sensing, Medical, Ship Building, Military, Aerospace, Semiconductor and Instrumentation industries. HandyTube produces continuous seamless coils which can be in excess of 6,000 feet. The tubing ranges in size from .020 to 3/4 inch outer diameter.

The facility has reported since 1987, previously as Camdel Metals. Trichloroethylene (TCE) is the primary TRI chemical reported by Handy Tube and makes up 100% of the on-site release amount. It is used as a solvent to clean the tubing. After 1994, Handy Tube switched to a closed vacuum system for the TCE, which significantly reduced releases to air (92,000 pounds of TCE were released to air in 1994). Handy Tube has continued to make improvements to the closed vacuum system that has further reduced TCE releases to air. Of the scrap metal generated at the facility, 99% is sent off-site for recycle.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>CHROMIUM</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>45,133</td>
</tr>
<tr>
<td>MANGANESE</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>4,767</td>
</tr>
<tr>
<td>NICKEL</td>
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<td>44,727</td>
</tr>
<tr>
<td>TRICHLOROETHYLENE</td>
<td>6,046</td>
<td>0</td>
<td>0</td>
<td>6,046</td>
<td>12,766</td>
</tr>
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<td>TOTAL</td>
<td>6,046</td>
<td>0</td>
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<td>6,046</td>
<td>107,393</td>
</tr>
</tbody>
</table>
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

NOTABLE 2013 NATIONAL RANKINGS:
Handytube ranks 74th in the nation for on-site releases of trichloroethylene (out of 202 facilities).
LOCATION/CONTACT:

Address: 631 Ridgley Street
Dover, DE 19904

Phone: (336)-519-2715

Contact: Tommy Thompson

FACILITY OVERVIEW:

Hanesbrands makes the 18-Hour material for the Playtex 18-Hour Bras. By compounding the latex with different chemicals, a rubber latex is produced. This latex is placed on an engraved roll which then goes through a process which coats the rubber latex with adhesive and nylon fabric is adhered to both sides to create the 18-Hour material.

Hanesbrands has reported since 2003, formerly as Sara Lee Apparel and Playtex Apparel. The facility reported on 1 chemical in 2013, nitrate compounds. Nitrate Compounds are a by-product of compounding the latex and are transferred off-site for treatment.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
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<th>PBT</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>MANAGEMENT</td>
</tr>
<tr>
<td>NITRATE COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>44,740</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>44,740</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 DISTRIBUTION OF TOTAL TRI WASTE

- ON-SITE MANAGEMENT 0%
- ON-SITE RELEASES 0%
- OFF-SITE TRANSFERS 100%

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

- OFF-SITE DISPOSAL 0%
- OFF-SITE ENERGY RECOVERY 0%
- POTW 100%

Hanesbrands makes the 18-Hour material for the Playtex 18-Hour Bras. By compounding the latex with different chemicals, a rubber latex is produced. This latex is placed on an engraved roll which then goes through a process which coats the rubber latex with adhesive and nylon fabric is adhered to both sides to create the 18-Hour material.

Hanesbrands has reported since 2003, formerly as Sara Lee Apparel and Playtex Apparel. The facility reported on 1 chemical in 2013, nitrate compounds. Nitrate Compounds are a by-product of compounding the latex and are transferred off-site for treatment.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>MANAGEMENT</td>
</tr>
<tr>
<td>NITRATE COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>44,740</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>44,740</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 DISTRIBUTION OF TOTAL TRI WASTE

- ON-SITE MANAGEMENT 0%
- ON-SITE RELEASES 0%
- OFF-SITE TRANSFERS 100%

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

- OFF-SITE DISPOSAL 0%
- OFF-SITE ENERGY RECOVERY 0%
- POTW 100%
**HANESBRANDS, CONT.**

**COMPARISON TO OTHER DELAWARE TRI FACILITIES:**

*Hanesbrands ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site. Comparisons only include facilities reporting on Form R.*
NOTABLE 2013 NATIONAL RANKINGS:

Hanesbrands ranks 3rd in the off-site transfer of nitrate compounds for textile facilities (NAICS 313/314) (out of 9 facilities).
HERITAGE CONCRETE-BEAR

LOCATION/CONTACT:
Address: 1250 Porter Road
Bear, DE 19701
Phone: (717)-236-7023
Contact: John Rice

FACILITY OVERVIEW:
Heritage Concrete reported under the North American Industrial Classification System (NAICS) as 327320, which covers ready-mix concrete manufacturing.

Heritage Concrete has four facilities in Delaware that report to TRI located in Bear, Cheswold, Frankford, and Wilmington. This is the first year the company has reported to TRI. These facilities each reported on one chemical in 2013, lead, with on-site releases to air and land. Lead is reported as being processed as an impurity.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>LEAD</td>
<td>0</td>
<td>0</td>
<td>18</td>
<td>18</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>18</td>
<td>18</td>
<td>0</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

2013 DISTRIBUTION OF TOTAL TRI WASTE

ON-SITE MANAGEMENT 0%
OFF-SITE TRANSFERS 0%
ON-SITE RELEASES 100%
TRI FACILITY PROFILES

HERITAGE CONCRETE-BEAR, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

Heritage Concrete-Bear ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

Heritage Concrete-Bear ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2013 NATIONAL RANKINGS:

Heritage Concrete-Bear ranks 57th in on-site releases of lead for stone/clay/glass facilities (NAICS 327) (out of 767 facilities).
LOCATION/CONTACT:
Address: 376 Holly Oak Lane
Cheswold, DE 19936
Phone: (717)-236-7023
Contact: John Rice

FACILITY OVERVIEW:
Heritage Concrete reported under the North American Industrial Classification System (NAICS) as 327320, which covers ready-mix concrete manufacturing.

Heritage Concrete has four facilities in Delaware that report to TRI located in Bear, Cheswold, Frankford, and Wilmington. This is the first year the company has reported to TRI. These facilities each reported on one chemical in 2013, lead, with on-site releases to air and land. Lead is reported as being processed as an impurity.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>LEAD</td>
<td>0</td>
<td>0</td>
<td>14</td>
<td>14</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>14</td>
<td>14</td>
<td>0</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 DISTRIBUTION OF TOTAL TRI WASTE

- On-Site Releases: 100%
- Off-Site Transfers: 0%

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

- Air: 0 pounds
- Water: 0 pounds
- Land: 14 pounds
COMPARISON TO OTHER DELAWARE TRI FACILITIES:
Heritage Concrete-Cheswold ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

Heritage Concrete Cheswold ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2013 NATIONAL RANKINGS:
Heritage Concrete-Cheswold ranks 61st in on-site releases of lead for stone/clay/glass facilities (NAICS 327) (out of 767 facilities).
LOCATION/CONTACT:

Address: 29610 Lazy Lagoon Road
          Frankford, DE 19945

Phone:   (717)-236-7023

Contact: John Rice

FACILITY OVERVIEW:

Heritage Concrete reported under the North American Industrial Classification System (NAICS) as 327320, which covers ready-mix concrete manufacturing.

Heritage Concrete has four facilities in Delaware that report to TRI located in Bear, Cheswold, Frankford, and Wilmington. This is the first year the company has reported to TRI. These facilities each reported on one chemical in 2013, lead, with on-site releases to air and land. Lead is reported as being processed as an impurity.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEAD</td>
<td>AIR 0 WATER 0 LAND 5 TOTAL 5</td>
<td>0</td>
<td>0</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0 0 5 5</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

2013 DISTRIBUTION OF TOTAL TRI WASTE
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

Heritage Concrete-Frankford ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

Heritage Concrete-Frankford ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2013 NATIONAL RANKINGS:

Heritage Concrete-Bear ranks 79th in on-site releases of lead for stone/clay/glass facilities (NAICS 327) (out of 767 facilities).
LOCATION/CONTACT:

Address: 1100 Heald Street
Wilmington, DE 19801

Phone: (717)-236-7023

Contact: John Rice

FACILITY OVERVIEW:

Heritage Concrete reported under the North American Industrial Classification System (NAICS) as 327320, which covers ready-mix concrete manufacturing.

Heritage Concrete has four facilities in Delaware that report to TRI located in Bear, Cheswold, Frankford, and Wilmington. This is the first year the company has reported to TRI. These facilities each reported on one chemical in 2013, lead, with on-site releases to air and land. Lead is reported as being processed as an impurity.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>LEAD</td>
<td>0</td>
<td>0</td>
<td>38</td>
<td>38</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>38</td>
<td>38</td>
<td>0</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 DISTRIBUTION OF TOTAL TRI WASTE

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)
TRI FACILITY PROFILES

HERITAGE CONCRETE-WILMINGTON, CONT.

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

Heritage Concrete-Wilmington ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

Heritage Concrete-Wilmington ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2013 NATIONAL RANKINGS:

Heritage Concrete-Bear ranks 43rd in on-site releases of lead for stone/clay/glass facilities (NAICS 327) (out of 767 facilities).
LOCATION/CONTACT:

Address: 1525 McKee Road
Dover, DE 19904

Phone: (302)-678-3454

Contact: Ken Murr

FACILITY OVERVIEW:

Hirsh Industries produces a line of consumer durables. These products include file cabinets, shelving units, and lateral filing systems. These items are used in home and office applications.

Hirsh industries has reported since 1989, previously as Steel Works and General Metal Craft. The facility reported one TRI chemical in 2013, certain glycol ethers, with on-site releases made only to air. The chemical is used as a component in the water based coatings for their painting process. On-site releases for 2013 increased by 31% compared to 2012, as a result of higher coatings use, due to increased production demands for Lateral Filing Cabinets. Releases, however, in general have trended downward since 2009, the result of utilizing improved paint products from their vendors.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>AIR</td>
</tr>
<tr>
<td>CERTAIN GLYCOL ETHERS</td>
<td>5,717</td>
<td>0</td>
<td>0</td>
<td>5,717</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>5,717</td>
<td>0</td>
<td>0</td>
<td>5,717</td>
<td>0</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 DISTRIBUTION OF TOTAL TRI WASTE

- ON-SITE TRANSFERS: 0%
- OFF-SITE RELEASES: 100%
- ON-SITE MANAGEMENT: 0%
Hirsh Industries ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

**NOTABLE 2013 NATIONAL RANKINGS:**
Hirsh Industries ranks 6th in the on-site releases of certain glycol ethers for furniture facilities (NAICS 337) (out of 10 facilities).
LOCATION/CONTACT:
Address: 6100 Philadelphia Pike  
Claymont, DE 19703

Phone: (302)-791-6748

Contact: Russell Davis

FACILITY OVERVIEW:
Honeywell manufactures specialty chemicals that are used in the production of hydrocarbon resins, lubricants, and adhesives.

The facility has reported since 1987, previously as Allied Signal. Honeywell reported four TRI chemicals for 2013. All on-site releases were to air. Releases of boron trifluoride, hydrogen fluoride, and polycyclic aromatic compounds (PACs) accounted for over 99% of the on-site releases, while releases of methanol accounted for less than 1%. The chemicals reported are utilized in the manufacture of fluorine based chemicals. The PAC’s were from the paving of roadways within the plant.

In 2013, Honeywell discontinued the use of hexane and ammonia at the facility resulting in significantly reducing on-site releases. On-site releases decreased by a total of 79% compared to 2012.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>84</td>
</tr>
<tr>
<td>BORON TRIFLUORIDE</td>
<td>416</td>
<td>0</td>
<td>0</td>
<td>416</td>
<td>4</td>
</tr>
<tr>
<td>HYDROGEN FLUORIDE</td>
<td>543</td>
<td>0</td>
<td>0</td>
<td>543</td>
<td>0</td>
</tr>
<tr>
<td>METHANOL</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>1,080</td>
</tr>
<tr>
<td>POLYCYCLIC AROMATIC COMPOUNDS</td>
<td>445</td>
<td>0</td>
<td>0</td>
<td>445</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1,408</td>
<td>0</td>
<td>0</td>
<td>1,408</td>
<td>1,084</td>
</tr>
</tbody>
</table>
GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

ON-SITE RELEASES BY CHEMICAL

2013 DISTRIBUTION OF TOTAL TRI WASTE

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

2013 DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY
Honeywell ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

**NOTABLE 2013 NATIONAL RANKINGS:**
Honeywell ranks 3rd nationally in on-site releases of boron trifluoride (out of 21 facilities).
IKO

LOCATION/CONTACT:
Address: 120 Hay Road
Wilmington, DE 19809
Phone: (302) 764-3100
Contact: Mike Peterson

FACILITY OVERVIEW:
IKO Production, Inc. manufactures residential roofing products, mainly asphalt shingles, which are made from fiberglass mat coated with asphalt and finished with colored roofing granules.

IKO has reported since 2000. The facility reported on one chemical in 2013, polycyclic aromatic compounds (PACs), with all the waste being manage on and off-site. PACS are a byproduct of asphalt, which is a residual petroleum product from crude oil distillation.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYCYCLIC AROMATIC COMPOUNDS</td>
<td>AIR 0 WATER 0 LAND 0 TOTAL 83</td>
<td>551</td>
<td>YES</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>0 0 0 0 83 551</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2013 DISTRIBUTION OF TOTAL TRI WASTE:
- On-site releases: 0%
- On-site management: 87%
- Off-site transfers: 13%

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY:
- Off-site energy recovery: 0%
- Off-site disposal: 1%
- Off-site recycle: 99%
- Non POTW: 0%
- Off-site treatment: 0%
- POTW: 0%
IKO ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

IKO ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

IKO ranks 62nd in the nation for on-site recycling of polycyclic aromatic compounds (out of 1,764 facilities).
LOCATION/CONTACT:
Address: 29416 Power Plant Road
Dagsboro, DE 19939
Phone: (609)-524-4529
Contact: David Gaier

FACILITY OVERVIEW:
Indian River Generating Station is a 426 megawatt facility that produces electricity, primarily from the combustion of coal. The facility previously consisted of four coal burning units and one combustion turbine. As of 2011, Units #1 and #2 were retired and Unit #3 was retired at the end of 2013.

For these units, these retirements took place even after additional emission controls and operational strategies were applied. These applications include reduced sulfur content of the coal burned for SO2 reduction, Activated Carbon Injection (ACI) for Mercury reductions, and Selective Non-Catalytic Reduction (SNCR) for NOx reductions. On Unit 4, in addition to SNCR and ACI technology, in 2011 the facility installed a Circulating Dry Scrubber (CDS) with a Baghouse for removal of acid gases including SO2 and HCl, metals, and particulate matter and Selective Catalytic Reduction (SCR) for NOx reductions. These shutdowns along with the additional controls have reduced the overall on-site releases by 96% compared to 2003.

The Indian River Plant reported on eleven TRI chemicals for 2013. Five of these were metal compounds, three were acid gases, one was dioxin and dioxin like compounds and the remaining two were ammonia and naphthalene. All the compounds except ammonia are formed during the combustion process as a result of impurities within the coal and oil. Ammonia is a product of the nitrogen oxide emissions reduction process and naphthalene is in the oil consumed at the facility.

Coal analysis data, emissions data, and emissions factors are used as a basis for calculating releases. This gives a more representative total release for the year because it represents all the data for the year, not just the data collected during a single stack test.

Acid gasses including hydrochloric acid, sulfuric acid, and hydrofluoric acid accounted for 43% of the on-site releases for 2013 compared to 98% in 2011. On-site releases for acid gases in 2013 decreased by 39% compared to 2012 and 93% compared to 2011. These decreases are due to the acid gases primarily being treated on-site by the CDS control technology.

Metal compounds, formed as a result of impurities in the coal, are largely captured (99%) in the fly ash and bottom ash. The majority of coal ash is disposed of in the on-site landfill, which includes a liner system and leachate collection. For 2013, chromium, copper, and zinc were below the reporting threshold.
2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>AMMONIA</td>
<td>5,823</td>
<td>0</td>
<td>0</td>
<td>5,823</td>
<td>0</td>
</tr>
<tr>
<td>BARIUM COMPOUNDS</td>
<td>386</td>
<td>0</td>
<td>100,040</td>
<td>100,426</td>
<td>1</td>
</tr>
<tr>
<td>DIOXIN AND DIOXIN-LIKE COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>HYDROCHLORIC ACID</td>
<td>114,394</td>
<td>0</td>
<td>0</td>
<td>114,394</td>
<td>0</td>
</tr>
<tr>
<td>HYDROGEN FLUORIDE</td>
<td>10,160</td>
<td>0</td>
<td>0</td>
<td>10,160</td>
<td>0</td>
</tr>
<tr>
<td>LEAD COMPOUNDS</td>
<td>74</td>
<td>6,217</td>
<td>0</td>
<td>6,291</td>
<td>0</td>
</tr>
<tr>
<td>MANGANESE COMPOUNDS</td>
<td>136</td>
<td>16,761</td>
<td>0</td>
<td>16,897</td>
<td>0</td>
</tr>
<tr>
<td>MERCURY COMPOUNDS</td>
<td>4</td>
<td>113</td>
<td>0</td>
<td>117</td>
<td>0</td>
</tr>
<tr>
<td>NAPHTHALENE</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SULFURIC ACID</td>
<td>10,910</td>
<td>0</td>
<td>0</td>
<td>10,910</td>
<td>0</td>
</tr>
<tr>
<td>VANADIUM COMPOUNDS</td>
<td>83</td>
<td>14,253</td>
<td>0</td>
<td>14,336</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>141,970</td>
<td>137,384</td>
<td>279,354</td>
<td>1,372,390</td>
<td>3,651,745</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

- 2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)
  - AIR: 141,970
  - WATER: 0
  - LAND: 137,384

- 2013 ON-SITE RELEASES BY CHEMICAL
  - HYDROCHLORIC ACID: 114,394
  - BARIUM COMPOUNDS: 100,426
  - MANGANESE COMPOUNDS: 16,897
  - VANADIUM COMPOUNDS: 14,336
  - SULFURIC ACID: 10,910
  - HYDROGEN FLUORIDE: 10,160
  - ALL OTHER CHEMICALS: 12,231

- TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

- 2013 DISTRIBUTION OF TOTAL TRI WASTE
  - ON-SITE RELEASES: 8%
  - OFF-SITE TRANSFERS: 0%
  - ON-SITE MANAGEMENT: 92%
Indian River Generating Station ranks 76th in on-site treatment of sulfuric acid aerosol (out of 763 facilities).

Indian River Generating Station ranks 78th in on-site treatment of hydrochloric acid aerosol by electric utility facilities (NAICS 2211) (out of 359 facilities).
LOCATION/CONTACT:

Address: 29160 Intervet Lane
Millsboro, DE 19966

Phone: (302) 934-4265

Contact: Tom Bastian

FACILITY OVERVIEW:

Intervet reported under the North American Industrial Classification System (NAICS) as 325414, which covers biological product manufacturing. The facility, located in Millsboro, is a fully integrated Animal Health site dedicated to the biomanufacturing of animal vaccines.

Intervet has reported since 2000. For 2013, the facility reported on one chemical, mercury compounds. All waste reported for mercury compounds were transferred off-site for disposal. Mercury compounds are utilized in the production of vaccines (Thimerosal) as a preservative and mercury containing light bulbs are at the site.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>MERCURY COMPOUNDS</td>
<td>AIR 0</td>
<td>WATER 0</td>
<td>LAND 0</td>
<td>TOTAL 0</td>
<td>TRANSFERS 5</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

2013 DISTRIBUTION OF TOTAL TRI WASTE
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

Intervet ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

Intervet ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

NOTABLE 2013 NATIONAL RANKINGS:

Intervet ranks 52nd in the off-site transfer of mercury compounds for chemical facilities (NAICS 325) (out of 110 facilities).
LOCATION/CONTACT:
Address: 700 N. Broad Street
    Middletown, DE 19709
Phone: (302)-376-4052
Contact: Cory Hulsing

FACILITY OVERVIEW:
Johnson Controls Battery Plant manufactures the internal lead parts of batteries that are formed and filled 1.5 miles away at their Middletown Distribution Center, before being shipped to customers. These completed batteries are used in a wide variety of vehicle types including passenger, commercial, agricultural, golf carts, and boats.

Johnson Controls Battery plant has reported since 1987. The facility reported on two chemicals in 2013, with on-site releases only from lead compounds, to both air and water. Lead compounds are utilized in the manufacturing of the battery’s internal (positive and negative) plates and for completing the circuit between these plates throughout the battery. The other chemical reported antimony compounds, an impurity within the lead received from smelters, are recycled off-site. The facility assumes worst case for the impurity, which is 3% of all lead.

The majority of waste is sent off-site for recycling, with less than 0.01% being released on-site. On-site releases for 2013 increased by 18% compared to 2012, but are down 17% overall since 2003 (see Total On-site Releases Per Year Graph on the next page).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTIMONY COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td>NO</td>
</tr>
<tr>
<td>LEAD COMPOUNDS</td>
<td>141</td>
<td>14</td>
<td>0</td>
<td>156</td>
<td>YES</td>
</tr>
<tr>
<td>TOTAL</td>
<td>141</td>
<td>14</td>
<td>0</td>
<td>156</td>
<td>YES</td>
</tr>
</tbody>
</table>
**TRI FACILITY PROFILES**

**Johson Controls Battery Plant, Cont.**

**Graphical Information:**

**2013 On-Site Releases by Media (In Pounds)**

- Air: 141 pounds
- Water: 14 pounds
- Land: 0 pounds

**2013 Onsite Releases by Chemical**

- Lead Compounds: 156 pounds
- Antimony Compounds: 0 pounds

**Total On-Site Releases Per Year (In Pounds)**

- Year: 2003 to 2013
- Graph showing releases by media:
  - Total
  - Air
  - Water
  - Land

**2013 Distribution of Total TRI Waste**

- On-Site Management: 0%
- Off-Site Transfers: 100%

**2013 Distribution of Total Off-Site Transfers by Category**

- Off-Site Disposal: 0%
- Potw: 0%
- Non Potw Off-Site Treatment: 0%
- Off-Site Energy Recovery: 100%
- Off-Site Recycle: 100%
NOTABLE 2013 NATIONAL RANKINGS:

Johnson Controls ranks 16th in the nation for off-site transfers of lead compounds (out of 3,782 facilities).
LOCATION/CONTACT:
Address: 50 Patriot Drive
Middletown, DE 19709
Phone: (302)-696-3209
Contact: Rick Thompson

FACILITY OVERVIEW:
Johnson Controls Distribution Center forms and fills batteries, then prior to shipping; the batteries are washed and then labeled with the specified decal by the customer. From their battery plant, that is located 1.5 miles away in Middletown, the batteries are mostly shipped to customers within the Northeast. These batteries are used in a wide variety of vehicle types including passenger, commercial, agricultural, golf carts, and boats. In addition to many types of batteries Johnson Controls Middletown Distribution Center ships, there are just as many brands that leave the facility each day as well.

Johnson Controls Distribution Center has reported since 2011. The facility reported on one chemical in 2013, lead compounds. All of the lead compounds reported are sent off-site for recycling. The lead compounds that are shipped off-site for recycling, are from the in-plant junks and warranty returns from customers. Lead compounds are utilized in the construction of the batteries.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TOTAL</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEAD COMPOUNDS</td>
<td>0 0 0 0 1,293,566</td>
<td>0 YES</td>
<td>0</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0 0 0 0 1,293,566</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 DISTRIBUTION OF TOTAL TRI WASTE

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

...
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

**NOTABLE 2013 NATIONAL RANKINGS:**

Johnson Controls Distribution Center ranks 32nd in off-site transfers of lead compounds (out of 3,782 facilities).
TRI FACILITY PROFILES

JUSTIN TANKS

LOCATION/CONTACT:

Address: 21413 Cedar Creek Ave.
Georgetown, DE 19947

Phone: (302)-856-3521

Contact: Edward Short

FACILITY OVERVIEW:

Justin Tanks manufactures a wide variety of Fiberglass Reinforced Plastic (FRP) tanks for use in the chemical, agricultural, and food industries.

Justin Tanks has reported since 1987. The facility reported on one TRI chemical, styrene, for 2013. Styrene is used as a monomer in the polymerization of fiberglass resin. The majority of the styrene is released to the air during the process of applying fiberglass reinforcement to the tank. During polymerization and curing, small amounts of styrene are released, and the amount of styrene release diminishes to zero at full cure. No release occurs after the tank polymerization and curing process is complete. On-site release of styrene was down 25% for 2013, compared to 2012, with production down by 20% (see Total On-site Releases Per Year Graph on the next page).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>STYRENE</td>
<td>9,688</td>
<td>0</td>
<td>331</td>
<td>10,019</td>
<td>331</td>
</tr>
<tr>
<td>TOTAL</td>
<td>9,688</td>
<td>0</td>
<td>331</td>
<td>10,019</td>
<td>331</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

ON-SITE RELEASES BY MEDIA

DISTRIBUTION OF TOTAL TRI WASTE AMONG MAJOR CATEGORIES

ON-SITE RELEASES 33%
OFF-SITE TRANSFERS 1%
ON-SITE MANAGEMENT 66%
TRI FACILITY PROFILES

JUSTIN TANKS, CONT.

GRAPHICAL INFORMATION CONT.:

TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

POTW 0%
NON POTW OFF-SITE TREATMENT 100%
OFF-SITE DISPOSAL 0%
OFF-SITE RECYCLE 0%
OFF-SITE ENERGY RECOVERY 0%

DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY

ON-SITE TREATMENT 0%
ON-SITE ENERGY RECOVERY 0%
ON-SITE RECYCLE 100%

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)
COMPARISON TO OTHER DELAWARE TRI FACILITIES CONT:

NOTABLE 2013 NATIONAL RANKINGS:
Justin Tanks ranks 12th in on-site recycling of styrene (out of 1,223 facilities).
KUEHNE

LOCATION/CONTACT:
Address: 1645 River Road
          Delaware City, DE 19706
Phone: (302)-834-4557
Contact: Alan Rogers

FACILITY OVERVIEW:
Kuehne reports under the North American Industrial Classification System (NAICS) as 325181, which covers the manufacturing of basic inorganic chemicals. Material produced at the facility is used primarily for municipal water and wastewater treatment.

Kuehne has reported since 1987, previously reporting under the company Chloramone. For 2013, the facility reported on one chemical, chlorine, with all on-site releases being made to air. Chlorine is repackaged for sale and also used in the production of sodium hypochlorite (bleach).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR   WATER LAND TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHLORINE</td>
<td>683 0 0 683</td>
<td>0 0</td>
<td>0</td>
<td>0 NO NO</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>683 0 0 683</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 DISTRIBUTION OF TOTAL TRI WASTE

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

- AIR: 683 pounds
- WATER: 0 pounds
- LAND: 0 pounds
Kuehne ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.

**NOTABLE 2013 NATIONAL RANKINGS:**

Kuehne ranks 100th in on-site releases of chlorine for chemical facilities (NAICS 325) (out of 281 facilities).
MACDERMID

LOCATION/CONTACT:
Address: 701 Industrial Drive
Middletown, DE 19709
Phone: (302)-378-3100
Contact: Ken McCullough

FACILITY OVERVIEW:
MacDermid, Inc., a Platform Specialty Products company, manufactures photopolymer resins for the graphic arts and printing industry. Photopolymer resin will crosslink when exposed to UV radiation and become rubber material suitable for use as flexible printing plates. MacDermid also cuts to size and laminates coated film from rolls produced by MacDermid, UK.

The facility has reported since 1987, previously as Hercules-Middletown. MacDermid reported two chemicals in 2013, diisocyanates and toluene diisocyanates (mixed isomers), both on short Form A. Isocyanates are used in the manufacture of polyurethanes which are precursors to photopolymer resins. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.)

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>DIISOCYANATES*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOLUENE DIISOCYANATE (MIXED ISOMERS)*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:
TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
LOCATION/CONTACT:
Address: 100 Industrial Blvd.
Clayton, DE 19938
Phone: (302)-653-3000
Contact: Richard Murphy

FACILITY OVERVIEW:
Eagle Group manufactures commercial stainless steel foodservice equipment. Their Metal Masters product line includes sinks, tables, food warming equipment, serving equipment, shelving of both solid and wire design, and custom fabrications. The raw metals are purchased in sheet or wire form and then sheared, punched, formed, welded, spot welded, ground and finished to produce an end product.

Metal Masters has reported since 2001. The facility reported on 2 chemicals in 2013, nickel and chromium, with on-site releases being only to air. These chemicals are component parts of the stainless steel and are released to air during the welding phase. These releases to air account for less than 0.01% of the total waste management. All scrap metal which is not able to be used for finished product is recycled off-site. A smaller portion of the waste that is generated as grinding dust is shipped off-site for disposal.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>CHROMIUM</td>
</tr>
<tr>
<td>NICKEL</td>
<td>0.5</td>
<td>0</td>
<td>0</td>
<td>0.5</td>
<td>55,802</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>226,695</td>
</tr>
</tbody>
</table>
TRI FACILITY PROFILES

METAL MASTERS, CONT.

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

2013 ONSITE RELEASES BY CHEMICAL

NICKEL

CHROMIUM

POUNDS

TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

2013 DISTRIBUTION OF TOTAL TRI WASTE
Metal Masters ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

Metal Masters ranks 64th in off-site recycling of chromium for fabricated metal facilities (NAICS 332) (out of 861 facilities).
**LOCATION/CONTACT:**

Address: 231 Lake Drive  
Newark, DE 19702

Phone: (302) 323-1061

Contact: Dave Holleran

**FACILITY OVERVIEW:**

Motech Americas manufactures photovoltaic (pv) cells, pv modules, pv inverters, and pv power systems which are used in the production of solar modules. The Newark facility distributes solar module systems throughout North America.

Motech Americas has reported since 2001. The facility reported on 1 chemical in 2013, lead. All of the lead compounds are sent off-site for treatment. Lead is utilized in the production of poly crystalline solar modules.

**2013 TRI DATA (REPORTED IN POUNDS):**

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEAD</td>
<td>AIR 0, WATER 0, LAND 0, TOTAL 212</td>
<td>0</td>
<td>0</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0, 0, 0, 0</td>
<td>212</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GRAPHICAL INFORMATION:**

- **TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS):**
  - TOTAL: 2003-2013
  - AIR: 2003-2013
  - WATER: 2003-2013
  - LAND: 2003-2013

- **2013 DISTRIBUTION OF TOTAL TRI WASTE:**
  - ON-SITE RELEASES 0%
  - OFF-SITE TRANSFERS 100%
Motech Americas ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

Motech Americas ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.
LOCATION/CONTACT:

Address: 29106 John J. Williams Highway
Millsboro, DE 19966

Phone: (302)-934-3123

Contact: Roger Marino

FACILITY OVERVIEW:

Mountaire Farms of Delaware is located in Millsboro, and hatches chickens for growers, produces feed for poultry growers, produces poultry byproducts, and produces retail, wholesale and export chicken products.

The facility has reported since 1987, previously as Townends. For 2013, Mountaire Farms of Delaware reported four TRI chemicals, hydrogen sulfide and metallic compounds (Copper, Manganese, and Zinc). Hydrogen sulfide is a byproduct of anaerobic wastewater treatment. The metallic compounds are used in poultry feed and are reported on form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) Persistent Bio-Accumulative Toxic (PBT) Chemicals, such as lead, are ineligible for Form A.

Mountaire Farms in previous years has also reported on ammonia, a byproduct of poultry processing that is treated in the on-site wastewater treatment plant. Since the biological treatment of the wastewater fluctuates, ammonia is sometimes below the reporting threshold, which it was in 2013.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>COPPER COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>HYDROGEN SULFIDE</td>
<td>2,417</td>
<td>0</td>
<td>0</td>
<td>2,417</td>
<td>0</td>
</tr>
<tr>
<td>MANGANESE COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ZINC COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>TOTAL</td>
<td>2,417</td>
<td>0</td>
<td>0</td>
<td>2,417</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A
Comparison to Other Delaware TRI Facilities:

2013 On-Site Releases: Top 15 Facilities (in Pounds):

MOUNTAIRE FARMS OF DELAWARE, CONT.
NOTABLE 2013 NATIONAL RANKINGS:
Mountaire Farms of Delaware ranks 37th in the on-site treatment of hydrogen sulfide by food/beverage facilities (NAICS 311) (out of 85 facilities).
MOUNTAIRE FARMS- FRANKFORD

LOCATION/CONTACT:

Address: 11 Daisey Street
Frankford, DE 19945

Phone: (302)-934-3123

Contact: Roger Marino

FACILITY OVERVIEW:

Mountaire Farms-Frankford reported under the North American Industrial Classification System (NAICS) as 311119, which covers animal food manufacturing, except facilities primarily engaged in custom grain grinding for animal feed. This location manufactures chicken feed.

Mountaire Farms-Frankford has reported since 1996. The facility reported on 3 chemicals in 2013, all on the short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) Persistent Bio-Accumulative Toxic (PBT) Chemicals, such as polycyclic aromatic compounds (PACs), are ineligible for Form A. The facility recently converted to using natural gas in their boilers, resulting in PACs no longer being reported as released on-site in 2013.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>TRANSFERS</td>
</tr>
<tr>
<td>COPPER COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>MANGANESE COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>ZINC COMPOUNDS*</td>
<td>0</td>
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<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
LOCATION/CONTACT:
Address: 500 Swedes Landing Road
         Wilmington, DE 19801
Phone:  (302)-888-4477
Contact: John Daly

FACILITY OVERVIEW:
Noramco, Inc. is the North American Chemical Operations subsidiary of Johnson & Johnson. Noramco manufactures and markets Active Pharmaceutical Ingredients (APIs) and fine chemicals for other Johnson & Johnson affiliated companies and to third-party trade customers. The majority of such trade sales consist of controlled substance pain management active pharmaceutical ingredients.

The facility has reported since 1987. Noramco reported seven chemicals in 2013, and all on-site releases of these chemicals were to the air through normal plant operations. The chemicals reported are comprised mainly of solvents that are used in the separation, synthesis, and purification of small molecule APIs made from natural plant materials. For this reason, the usage and release quantities of these chemicals are primarily tied to Noramco’s production volumes. On-site releases for Noramco have decreased by 50% since 2003, the result of utilizing lean manufacturing programs to reduce waste and unneeded chemical processing and leveraging new technologies and sustainable chemistry initiatives (see Total On-site Releases Per Year Graph on the next page).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBTP</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>DICHLOROMETHANE</td>
<td>1,874</td>
<td>0</td>
<td>0</td>
<td>1,874</td>
<td>58,083</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL</td>
<td>10</td>
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<td>0</td>
<td>10</td>
<td>11,316</td>
</tr>
<tr>
<td>FORMIC ACID</td>
<td>17</td>
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<td>0</td>
<td>17</td>
<td>0</td>
</tr>
<tr>
<td>METHANOL</td>
<td>179</td>
<td>0</td>
<td>0</td>
<td>179</td>
<td>121,161</td>
</tr>
<tr>
<td>N-BUTYL ALCOHOL</td>
<td>111</td>
<td>0</td>
<td>0</td>
<td>111</td>
<td>834,212</td>
</tr>
<tr>
<td>PERACETIC ACID</td>
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<td>0</td>
<td>0</td>
<td>10</td>
<td>9,960</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>113</td>
<td>0</td>
<td>0</td>
<td>113</td>
<td>548,386</td>
</tr>
<tr>
<td>TOTAL</td>
<td>2,314</td>
<td>0</td>
<td>0</td>
<td>2,314</td>
<td>1,583,118</td>
</tr>
</tbody>
</table>
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)

2013 TOTAL TRI WASTE REPORTED: TOP 15 FACILITIES (IN POUNDS)

NOTABLE 2013 NATIONAL RANKINGS:

Noramco ranks 3rd in the nation for off-site transfers of n-butyl alcohol (out of 723 facilities).

Noramco ranks 6th in the nation for on-site treatment of n-butyl alcohol (out of 723 facilities).
LOCATION/CONTACT:

Address: 111 Park Ave
Seaford, DE 19973

Phone: (302)-628-1300

Contact: Dave Curry

FACILITY OVERVIEW:

Orient Corporation distributes various dyes, pigment dispersions, and charge control agents. The Seaford plant produces Nigrosine Dye, a product used in phenolic and polyamide resins and specialty paints. Orient supplies a large share of domestic demand for this type of dye.

Orient has reported since 1992. The facility reported on four chemicals in 2013, with on-site releases only to air. Aniline is the predominant on-site release, accounting for 97% of the total, with remaining 3% attributable to nitrobenzene. Aniline and nitrobenzene are both used in the production of dyes.

In 2011, TRI reports included more detailed calculations and analytical testing that were not used in previous years, resulting in higher releases reported. In 2012, a thermal oxidizer was utilized for the destruction of aniline, which resulted in a decrease in on-site releases of 99% compared to 2011 (see Total On-site Releases Per Year Graph on the next page).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>74</td>
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<td>0</td>
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<td>1</td>
</tr>
<tr>
<td>NITROBENZENE</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>ZINC COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>TOTAL</td>
<td>77</td>
<td>0</td>
<td>0</td>
<td>77</td>
<td>1,690</td>
</tr>
</tbody>
</table>
**Orient, Cont.**

**Comparison to Other Delaware TRI Facilities**

**2013 On-Site Releases: Top 15 Facilities (in Pounds)**

*Orient ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.*

**2013 Total TRI Waste Reported: Top 15 Facilities (in Pounds)**

**Notable 2013 National Rankings:**

Orient ranks 2nd in the nation for on-site recycling of aniline (out of 56 facilities).
**LOCATION/CONTACT:**

Address: 16447 Adams Road  
Bridgeville, DE 19933

Phone: (410)-543-3166

Contact: Julie Deyoung

**FACILITY OVERVIEW:**

Perdue Farms is a producer of poultry products. The Bridgeville facility is a feed mill that produces poultry feed.

Perdue Bridgeville has reported since 1995. The facility reported on three chemicals in 2013, all on short Form A. Form A reports do not include waste management activities. The chemicals reported are metal compounds that are used in poultry feed as nutritional ingredients. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.)

**2013 TRI DATA (REPORTED IN POUNDS):**

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>AIR</td>
</tr>
<tr>
<td>COPPER COMPOUNDS*</td>
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<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>MANGANESE COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>ZINC COMPOUNDS*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

**GRAPHICAL INFORMATION:**

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
LOCATION/CONTACT:
Address: 20621 Savannah Road
Georgetown, DE 19947
Phone: (410)-543-3166
Contact: Julie Deyoung

FACILITY OVERVIEW:
Perdue Farms is a producer of poultry products. The Georgetown facility processes chickens for sale to the retail market.

The facility has reported since 1987. Perdue Georgetown reported on three TRI chemicals for 2013: nitrate compounds, hydrogen sulfide and polycyclic aromatic compounds (PACs). Perdue’s wastewater treatment plant digests ammonia and production waste from the poultry processing plant’s wastewater stream and converts some of these wastes to nitrate compounds, which are discharged into a local stream. Hydrogen sulfide is a byproduct from anaerobic treatment of the organic wastes in the wastewater and is released to air. PACs are a byproduct of burning Number 6 fuel oil as a back-up fuel source for the boilers. Natural gas is the primary fuel for the boilers.

These reported on-site release amounts have varied in recent years because of changes in plant operation and in the way the amount of nitrate compounds released are estimated. Additional processing procedures beyond straight ice-packed shipping add additional organics to be treated. Therefore, product mix, processing and wastewater treatment plant operations, temperatures and other fluctuating factors affect the final release results (see Total On-site Releases Per Year Graph on the next page).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>HYDROGEN SULFIDE</td>
<td>18,000</td>
<td>0</td>
<td>0</td>
<td>18,000</td>
<td>0</td>
</tr>
<tr>
<td>NITRATE COMPOUNDS</td>
<td>0</td>
<td>219,000</td>
<td>0</td>
<td>219,000</td>
<td>0</td>
</tr>
<tr>
<td>POLYCYCLIC AROMATIC COMPOUNDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>18,000</td>
<td>219,000</td>
<td>0</td>
<td>237,000</td>
<td>0</td>
</tr>
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</table>
TRI FACILITY PROFILES

PERDUE GEORGETOWN, CONT.

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

2013 DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY

2013 DISTRIBUTION OF TOTAL TRI WASTE

- 2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)
  - AIR: 18,000
  - WATER: 219,000
  - LAND: 0

- 2013 ON-SITE RELEASES BY CHEMICAL
  - NITRATE COMPOUNDS: 219,000
  - HYDROGEN SULFIDE: 18,000
  - POLYCYCLIC AROMATIC COMPOUNDS: 0

- TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)
  - 2003: 300,000
  - 2004: 400,000
  - 2005: 700,000
  - 2006: 700,000
  - 2007: 600,000
  - 2008: 500,000
  - 2009: 400,000
  - 2010: 300,000
  - 2011: 200,000
  - 2012: 100,000
  - 2013: 0

- 2013 DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY
  - ON-SITE RECYCLE: 0%
  - ON-SITE ENERGY RECOVERY: 0%
  - ON-SITE TREATMENT: 100%

- 2013 DISTRIBUTION OF TOTAL TRI WASTE
  - ON-SITE RELEASES: 62%
  - OFF-SITE TRANSFERS: 0%
  - ON-SITE MANAGEMENT: 38%
Perdue Georgetown ranks 67th in on-site release of nitrate compounds by food/beverage facilities (NAICS 311) (out of 565 facilities).

Perdue Georgetown ranks 20th in the on-site treatment of hydrogen sulfide by food/beverage facilities (NAICS 311)
LOCATION/CONTACT:

Address: 255 N. Rehoboth Blvd.
Milford, DE 19963

Phone:  (410)-543-3166

Contact: Julie Deyoung

FACILITY OVERVIEW:

Perdue Farms is a producer of poultry products. The Milford facility processes chicken for sale to the retail market and is an organic certified plant.

Perdue Milford has reported since 1991, previously as ConAgra Broiler. From 1999 through 2006, the facility was below the reporting threshold and no TRI reports were filed. For 2013, the facility reported on one chemical, peracetic acid, which is completely managed on-site. Peracetic acid is found in a FDA-approved antimicrobial food treatment for pathogen reduction in poultry processing. The product is used in chilling and carcass washing equipment in the plant. According to the manufacturer, the product is environmentally responsible as it is compatible with water treatment systems and rapidly breaks down after use.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERACETIC ACID</td>
<td>AIR 0</td>
<td>WATER 0</td>
<td>LAND 0</td>
<td>TOTAL 0</td>
<td>OFF-SITE 0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

2013 DISTRIBUTION OF TOTAL TRI WASTE

- Off-site Transfers: 0%
- On-site Releases: 0%
- On-site Management: 100%

2013 DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY

- On-site Treatment: 100%
- On-site Recycling: 0%
- On-site Energy Recovery: 0%
Comparison to other Delaware TRI Facilities:

Notable 2013 National Rankings:

Perdue Milford ranks 30th for on-site treatment of peracetic acid (out of 144 facilities).
PICTSWEET

LOCATION/CONTACT:
Address: 18215 Wesley Church Road
Bridgeville, DE 19933
Phone: (731)-663-7600
Contact: Allen Watts

FACILITY OVERVIEW:
Pictsweet reports under the North American Industrial Classification System (NAICS) as 311411, which covers the manufacturing of frozen fruit, juice and vegetables.

The facility has reported since 1989, previously as Birds Eye Foods and Agrilink Foods. Pictsweet reported one TRI chemical in 2013, ammonia. Ammonia is used in refrigeration equipment, and releases are typical through normal service maintenance, leaks, and other losses that occur in the system. On-site release amounts of ammonia have varied year to year (see Total On-site Releases Per Year Graph).

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>AIR</td>
</tr>
<tr>
<td>AMMONIA</td>
<td>900</td>
<td>0</td>
<td>0</td>
<td>900</td>
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<tr>
<td>TOTAL</td>
<td>900</td>
<td>0</td>
<td>0</td>
<td>900</td>
<td>0</td>
</tr>
</tbody>
</table>

GRAPHICAL INFORMATION:

TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

2013 DISTRIBUTION OF TOTAL TRI WASTE
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

Pictsweet ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.
### LOCATION/CONTACT:

**Address:** 1886 Lynnbury Woods Road  
Dover, DE 19720

**Phone:** (302)-678-9800

**Contact:** Neal Nicastro

### FACILITY OVERVIEW:

PPG Dover reported under the North American Industrial Classification System (NAICS) as 325510, which covers paint and coating manufacturing.

PPG Dover has reported since 1987. The facility reported on three chemicals in 2013, with on-site releases only to air. The chemicals reported are utilized as raw materials in the paint making process. The raw materials are mixed together to make architectural paint. On-site releases accounted for less than 1% of all waste activities in 2013. Releases for 2005 through 2008 and from 2010 and 2011 were higher than other years, with increased releases of zinc compounds on-site (see Total On-site Releases Per Year Graph on the next page).

### 2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
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<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>CERTAIN GLYCOL ETHERS</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>5,139</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
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<td>ZINC COMPOUNDS</td>
<td>40</td>
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<td>0</td>
<td>40</td>
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</tr>
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<td>TOTAL</td>
<td>55</td>
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<td>55</td>
<td>11,795</td>
</tr>
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</table>

### GRAPHICAL INFORMATION:

#### ON-SITE RELEASES BY MEDIA (IN POUNDS)

- **Air:** 55
- **Water:** 0
- **Land:** 0

#### ON-SITE RELEASES BY CHEMICAL

- **ZINC COMPOUNDS:** 40
- **ETHYLENE GLYCOL:** 10
- **CERTAIN GLYCOL ETHERS:** 5
**COMPARISON TO OTHER DELAWARE TRI FACILITIES:**

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

- **POTW:** 89%
- **OFF-SITE DISPOSAL:** 4%
- **OFF-SITE ENERGY RECOVERY:** 0%
- **OFF-SITE RECYCLE:** 0%
- **OFF-SITE TREATMENT:** 7%
- **NON POTW:**

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

- **POTW:** 89%
- **OFF-SITE DISPOSAL:** 4%
- **OFF-SITE ENERGY RECOVERY:** 0%
- **OFF-SITE RECYCLE:** 0%
- **OFF-SITE TREATMENT:** 7%
- **NON POTW:**

**2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)**

- **DELAWARE CITY REFINERY:**
- **INDIAN RIVER GENERATING STATION:**
- **DUPONT EDGE MOOR:**
- **PERDUE GEORGETOWN:**
- **FORMOSA PLASTICS:**
- **BASE-FRANK:**
- **AIR LIQUIDE INDUSTRIAL:**
- **ERYAZ CLAYMONT:**
- **JUSTIN TANKS:**
- **DUPONT RED LION:**
- **HANDY TUBE:**
- **HIRSH INDUSTRIES:**
- **DENTSPLY WEST PLANT:**
- **AIR LIQUIDE - MEDALROHM & HAAS B2, B3, B8:**
- **ALL OTHERS (PPG INCLUDED HERE)*:**

*PPG Industries ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site. Comparisons only include facilities reporting on Form R.*
NOTABLE 2013 NATIONAL RANKINGS:

PPG Industries ranks 19th in the off-site transfer of certain glycol ethers to publicly owned treatment works (POTW) for chemical facilities (NAICS 325) (out of 653 facilities).
PRINCE MINERALS

LOCATION/CONTACT:
Address: 301 Pigeon Point Road
New Castle, DE 19720
Phone: (646)-747-4176
Contact: Mary Simpler

FACILITY OVERVIEW:
Prince Minerals is a supplier of colorants and additives to the North American brick industry as well as complementary products to serve the foundry, glass, and refractory markets.

Prince Minerals has reported since 1998, previously as American Minerals. The facility reported on 4 chemicals in 2013, all metal compounds, with on-site releases only to air. Two chemicals reported were submitted on Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) Persistent Bio-Accumulative Toxic (PBT) Chemicals, such as lead, are ineligible for Form A.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>BARIUM COMPOUNDS*</td>
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<tr>
<td>LEAD COMPOUNDS</td>
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<tr>
<td>MANGANESE COMPOUNDS</td>
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<td>168</td>
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<tr>
<td>NICKEL COMPOUNDS*</td>
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<td>TOTAL</td>
<td>168</td>
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<td>0</td>
<td>168</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:

ON-SITE RELEASES BY MEDIA (IN POUNDS)

ON-SITE RELEASES BY CHEMICAL

MANGANESE COMPOUNDS

LEAD COMPOUNDS

POUNDS
**TRI Facility Profiles**

**Prince Minerals, Cont.**

**Graphical Information Cont.:**

**Comparison to Other Delaware TRI Facilities:**

**2013 On-Site Releases: Top 15 Facilities (in Pounds)**

*Prince Minerals ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.*
**LOCATION/CONTACT:**

Address: 451 Bellevue Road  
Newark, DE 19713

Phone: (302)-366-0500

Contact: Kelly Block

**FACILITY OVERVIEW:**

Rohm&Haas (Buildings 2, 3, and 8) manufactures polishing pads and slurries for the semiconductor, electronics, and glass industries.

The facility has reported since 1987, previously as Rodel. Rohm and Haas reported on two TRI chemicals for 2013. N,N-Dimethylformamide (DMF), is used as a solvent carrier in the polishing pad manufacturing process and accounted for virtually all of their on-site releases. Releases of DMF mostly occur through evaporation from the poromerics coating and washing process. The majority of the DMF used is recycled in the distillation equipment for reuse in the process. All on-site releases of DMF were to air, and were primarily stack emissions from the scrubber and oxidizer used to control process emissions.

Methyl ethyl ketone was removed from the reportable TRI chemical list in 2004, which resulted in a significant reduction of the on-site releases reported by Rohm & Haas (see Total On-site Releases Per Year Graph on the next page).

**2013 TRI DATA (REPORTED IN POUNDS):**

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>DIISOCYANATES</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>4,157</td>
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<td>0</td>
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<td>4,157</td>
<td>0</td>
<td>0</td>
<td>4,157</td>
<td>6,910</td>
</tr>
</tbody>
</table>

**GRAPHICAL INFORMATION:**

[Graphs showing 2013 on-site releases by media (in pounds) and by chemical (in pounds)]
**TRI FACILITY PROFILES**

**ROHM & HAAS B2, B3, B8, CONT.**

**GRAPHICAL INFORMATION:**

**TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)**

- **TOTAL Releases:** 0%
- **Off-Site Transfers:** 30%
- **On-Site Management:** 70%

**2013 DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY**

- **On-Site Disposal:** 11%
- **Non-POTW Off-Site Treatment:** 0%
- **POTW:** 10%
- **Off-Site Recycle:** 79%
- **Off-Site Energy Recovery:** 0%
- **On-Site Energy Recovery:** 0%

**2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY**

- **Off-Site Disposal:** 11%
- **Non-POTW Off-Site Treatment:** 0%
- **POTW:** 10%
- **Off-Site Recycle:** 79%
- **Off-Site Energy Recovery:** 0%
- **On-Site Energy Recovery:** 0%
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)

2013 TOTAL TRI WASTE REPORTED: TOP 15 FACILITIES (IN POUNDS)

NOTABLE 2013 NATIONAL RANKINGS:

Rohm & Haas ranks 3rd for off-site transfers of n,n-dimethylformamide (out of 154 facilities).

Rohm & Haas ranks 1st for on-site recycling of n,n-dimethylformamide (out of 154 facilities).
LOCATION/CONTACT:
Address: 351 Bellevue Road
Newark, DE 19713
Phone: (302)-366-0500
Contact: Kelly Block

FACILITY OVERVIEW:
Rohm and Haas (Buildings 5 and 6) manufacture products used to polish electronic chips used in items such as mobile phones and computers. Rohm and Haas B5-B6 has reported since 1995, formerly as the Rodel Technical Center. For 2013, the facility reported 4 chemicals, with n-methyl-2-pyrrolidone (NMP) accounting for 99% of all on-site releases. NMP is utilized in cleaning equipment used in manufacturing. The majority of NMP is managed off-site with less than 3% being released on-site to air.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-METHYLENEBIS(2-CHLOROANILINE)*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1,507</td>
<td>0</td>
</tr>
<tr>
<td>DIISOCYANATES</td>
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<td>0</td>
<td>0</td>
<td>22,612</td>
<td>0</td>
</tr>
<tr>
<td>N-METHYL-2-PYRROLIDONE</td>
<td>2,180</td>
<td>0</td>
<td>0</td>
<td>81,405</td>
<td>0</td>
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<tr>
<td>TOLUENE DIISOCYANATE (MIXED ISOMERS)</td>
<td>2</td>
<td>0</td>
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<td>825</td>
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<tr>
<td>TOTAL</td>
<td>2,184</td>
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<td>0</td>
<td>106,349</td>
<td>4,599</td>
</tr>
</tbody>
</table>

*Reported on Short Form A

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

2013 ON-SITE RELEASES BY CHEMICAL

N-METHYL-2-PYRROLIDONE
DIISOCYANATES
TOLUENE DIISOCYANATE (MIXED ISOMERS)
COMPARISON TO OTHER DELAWARE TRI FACILITIES:

2013 ON-SITE RELEASES: TOP 15 FACILITIES (IN POUNDS)

2013 TOTAL TRI WASTE REPORTED: TOP 15 FACILITIES (IN POUNDS)

NOTABLE 2013 NATIONAL RANKINGS:

Rohm & Haas ranks 88th for on-site releases of n-methyl-2-pyrrolidone (out of 385 facilities).

Rohm & Haas ranks 66th for off-site transfers of n-methyl-2-pyrrolidone (out of 385 facilities).
FACILITY OVERVIEW:

Rohm and Haas (Buildings 7 and 15) manufacture products used to polish electronic chips used in items such as mobile phones and computers. Rohm and Haas (Buildings 7 and 15) has reported since 2005, formerly as the Rodel Building 7. For 2013, the facility reported 2 chemicals, n-methyl-2-pyrrolidone (NMP) and 4,4’-methylenebis(2-chloroaniline). NMP is used as a cleaning agent. 4,4’-methylenebis(2-chloroaniline) is reported on short form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.).

On-site releases for 2013 were down 72% compared to 2012. Analysis of past years reporting indicated that the site was double reporting cleaning bath emissions in the building 7 TRI report and the building 5 TRI report. This was corrected in the 2013 report, causing reported on-site air releases to drop significantly.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-METHYLENEBIS(2-CHLOROANILINE)*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>N-METHYL-2-PYRROLIDONE</td>
<td>788</td>
<td>0</td>
<td>0</td>
<td>11,747</td>
<td>NO</td>
</tr>
<tr>
<td>TOTAL</td>
<td>788</td>
<td>0</td>
<td>0</td>
<td>11,747</td>
<td>NO</td>
</tr>
</tbody>
</table>

*Reported on Short Form A

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY CHEMICAL

- N-METHYL-2-PYRROLIDONE: 788 pounds
- 4,4’-METHYLENEBIS(2-CHLOROANILINE): 0 pounds

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

- AIR: 788 pounds
- WATER: 0 pounds
- LAND: 0 pounds

Address: 50 Bellevue Road
Newark, DE 19713

Phone: (302)-366-0500

Contact: Kelly Block
TRI FACILITY PROFILES

ROHM & HAAS-B7, B15, CONT.

GRAPHICAL INFORMATION:

TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)

2013 DISTRIBUTION OF TOTAL TRI WASTE

ON-SITE MANAGE- MENT 0%

ON-SITE RELEASES 6%

OFF-SITE TRANSFERS 94%

2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY

NON POTW OFF-SITE TREATMENT 4%

OFF-SITE ENERGY RECOVERY 0%

OFF-SITE DISPOSAL 0%

POTW 0%

OFF-SITE RECYCLE 96%
**NOTABLE 2013 NATIONAL RANKINGS:**

Rohm & Haas ranks 63rd for off-site recycling of n-methyl-2-pyrrolidone (out of 385 facilities).
LOCATION/CONTACT:

Address: 3799 N Dupont Highway
Dover, DE 19901

Phone: (302)-734-7433

Contact: Don Steiner

FACILITY OVERVIEW:

Service Energy reported under the North American Industrial Classification System (NAICS) as 424710, which covers bulk liquid storage facilities primarily engaged in merchant wholesale of crude petroleum and petroleum products.

Service Energy Dover has reported since 1998. The facility reported on two chemicals in 2013, 1,2,4-trimethylbenzene and toluene, both on the short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs. of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 lbs. to be eligible to submit a Form A report.)

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>1,2,4-TRIMETHYLBENZENE*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOLUENE*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:

TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
SPI PHARMA

LOCATION/CONTACT:
Address: 40 Cape Henlopen Drive
        Lewes, DE 19958
Phone:  (302) -576-8532
Contact:  Paul Lopresto

FACILITY OVERVIEW:
SPI Pharma reported under the North American Industrial Classification System (NAICS) as 325412, which covers pharmaceutical manufacturing.

SPI Pharma has reported since 1987, previously as Barcroft. The facility reported on two chemicals in 2013, chlorine and nitric acid, both on short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.)

2013 TRI DATA (REPORTED IN POUNDS):

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<tr>
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<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>CHLORINE*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NITRIC ACID*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:
TRI reports for this facility were submitted on Short Form A. No on-site releases, off-site transfers, or on-site waste management activities are reported. Total reportable waste activities for this facility do not exceed 500 pounds per chemical reported.
LOCATION/CONTACT:

Address: 511 Carroll Drive
New Castle, DE 19720

Phone: (302) 322-1420

Contact: Johnny Roibu

FACILITY OVERVIEW:

V&S Galvanizing reported under the North American Industrial Classification System (NAICS) as 332812, which covers metal coating, engraving, and allied services to manufactures.

V&S Galvanizing has reported since 2009. The facility reported on two chemicals in 2013 (lead compounds and zinc compounds), with on-site releases to both air and water. The chemicals are that reported are found in the hot dip galvanizing process and coating. Stormwater data was also revised as more became available, combined with differences in annual precipitation for the various years. This resulted in reduced amount reported in stormwater for the last two reporting years. Between reporting years 2011 and 2012, V&S Delaware Galvanizing took a more comprehensive look at air concentration data available and revised their method of calculation to include the most conservative data. On-site releases have increased by 59% compared to 2009, but make up less than 0.01% of all waste management activities. The result increase in releases reported was due to a change in calculations and release assumptions based on more readily available data.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>ON-SITE RELEASES</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIR</td>
<td>WATER</td>
<td>LAND</td>
<td>TOTAL</td>
<td>AIR</td>
</tr>
<tr>
<td>LEAD</td>
<td>6</td>
<td>7</td>
<td>0</td>
<td>12</td>
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</tr>
<tr>
<td>ZINC COMPOUNDS</td>
<td>255</td>
<td>83</td>
<td>0</td>
<td>338</td>
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</tr>
<tr>
<td>TOTAL</td>
<td>261</td>
<td>90</td>
<td>0</td>
<td>351</td>
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</table>
**TRI FACILITY PROFILES**

**V & S GALVANIZING, CONT.**

**GRAPHICAL INFORMATION:**

**2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)**

- Air: 261 pounds
- Water: 90 pounds
- Land: 0 pounds

**2013 ON-SITE RELEASES BY CHEMICAL**

- Zinc Compounds: 338 pounds
- Lead: 12 pounds

**TOTAL ON-SITE RELEASES PER YEAR (IN POUNDS)**

- 2009: 100 pounds
- 2010: 150 pounds
- 2011: 200 pounds
- 2012: 250 pounds
- 2013: 300 pounds

**2013 DISTRIBUTION OF TOTAL ON-SITE WASTE MANAGEMENT BY CATEGORY**

- On-site Recycle: 100%
- On-site Treatment: 0%
- Off-site Recycle: 0%
- Off-site Disposal: 0%
- Off-site Energy Recovery: 0%

**2013 DISTRIBUTION OF TOTAL OFF-SITE TRANSFERS BY CATEGORY**

- Off-site Disposal: 14%
- POTW: 0%
- Off-site Energy Recovery: 0%
- Non-POTW Off-site Treatment: 0%
- Off-site Recycle: 86%
**NOTABLE 2013 NATIONAL RANKINGS:**

V&S Galvanizing ranked 73rd in the off-site recycle of zinc compounds for fabricated metal facilities (NAICS 332) (out of 353 facilities).
LOCATION/CONTACT:
Address: 16 Brookhill Drive
Newark, DE 19702
Phone: (302)-368-1500
Contact: Jim Kelly

FACILITY OVERVIEW:
VP Racing Fuels reported under the North American Industrial Classification System (NAICS) as 324199, which covers petroleum and coal products manufacturing.

VP Racing Fuels has reported since 2001. The facility reported on 4 chemicals in 2013, with 3 chemicals being reported on the short Form A. Form A reports do not include waste management activities. (Chemicals must have less than 500 lbs of total waste activities and the total annual amount of the chemical manufactured, processed, or otherwise used does not exceed 1,000,000 pounds to be eligible to submit a Form A report.) Persistent Bio-Accumulative Toxic (PBT) Chemicals, such as lead, are ineligible for Form A.

2013 TRI DATA (REPORTED IN POUNDS):

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>AIR</th>
<th>WATER</th>
<th>LAND</th>
<th>TOTAL</th>
<th>OFF-SITE TRANSFERS</th>
<th>ON-SITE MANAGEMENT</th>
<th>PBT</th>
<th>CARCINOGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEAD COMPOUNDS</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>METHANOL*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>TOLUENE*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NO</td>
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<tr>
<td>XYLENE (MIXED ISOMERS)*</td>
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<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Reported on short Form A

GRAPHICAL INFORMATION:

2013 ON-SITE RELEASES BY MEDIA (IN POUNDS)

2013 DISTRIBUTION OF TOTAL TRI WASTE
TRI FACILITY PROFILES

VP RACING FUELS, CONT.

GRAPHICAL INFORMATION CONT:

COMPARISON TO OTHER DELAWARE TRI FACILITIES:

VP Racing Fuels ranks in the bottom third in on-site releases reported by facilities in 2013. The bottom third accounted for less than a total of 300 pounds released on-site.

VP Racing Fuels ranks in the bottom third in total waste reported by facilities in 2013. The bottom third accounted for less than 31,000 pounds of total waste. Total waste includes waste released on-site, managed on-site, or transferred off-site.