Attachment O

DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL ("DNREC")

ENVIRONMENTAL PERMIT APPLICATION BACKGROUND STATEMENT

Pursuant to 7 Del. C. Chapter 79

FILING STATUS:

This Background Statement is being filed with DNREC because:

☒ 1. It is an initial application for a new permit (or permits) and the applicant or applicant company has not held a permit issued by DNREC for a period of 5 or more years [See 7 Del. C. § 7902(a) and (b)];

☐ 2. It is required on an annual basis because the applicant or applicant company has been designated a chronic violator pursuant to 7 Del. C. § 7904 [See 7 Del. C. § 7902(a)(7) and (b)(2)]; or

☐ 3. It is required on an annual basis as the applicant or applicant company has been found guilty, pled guilty or no contest to any crime involving violation of environmental standards which resulted in serious physical injury or serious harm to the environment as defined in 7 Del. C. § 7902(c) [See 7 Del. C. § 7902(a)(7) and (b)(2)].

APPLICANT OR APPLICANT COMPANY'S NAME OR COMPANY'S NAME FILING STATEMENT	Green Recovery Technologies, LLC 42 Lullens Drive, Suite 100 New Castle, DE 19720
DATE OF APPLICATION OR DATE OF STATEMENT	January 26, 2015
PERMIT(S) BEING APPLIED FOR OR STATEMENT FOR FILING STATUSES 2 OR 3	☒ **Permit Type(s)** Coastal Zone Act Permit ☐ **Statement for filing Statuses 2 or 3—If filing under these statuses, attach a statement of the date of designation as Chronic Violator or the date of Conviction/Plea.**
OTHER DNREC PERMITS HELD	☐ **N/A – No other permits held with DNREC** ☐ **List of all DNREC permits currently held with dates of issuance and expiration attached.**

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ENVIRONMENTAL PERMIT APPLICATION BACKGROUND STATEMENT

Please note: Companies filing statements pursuant to Chapter 79 have the right to identify information to be afforded confidential status pursuant to 7 Del. C. § 7903(b) and the requirements set forth in Section 6, "Requests for Confidentiality" of the DNREC *Freedom of Information Act Regulation*.

PROVIDING ALL OF THE INFORMATION REQUESTED IN THIS FORM SATISFIES THE REQUIREMENTS OF 7 DEL. C. CHAPTER 79 ("ENVIRONMENTAL PERMIT APPLICATION BACKGROUND STATEMENT") UNLESS THE DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL ("DNREC") OR THE DELAWARE DEPARTMENT OF JUSTICE DETERMINES THAT ADDITIONAL SUBMISSIONS ARE NECESSARY. FAILURE TO PROVIDE THE INFORMATION REQUESTED OR PROVIDING ERRONEOUS INFORMATION IS GROUNDS FOR DENYING OR REVOKING AN ENVIRONMENTAL PERMIT/APPROVAL/LICENSE, AND FOR CIVIL AND/OR CRIMINAL PENALTIES.

A. **(Authority – 7 Del. C. § 7902(a)(1&2) & § 7905)** Attach a complete list (full names) of all current members of the applicant company's board of directors, all current corporate officers, all persons owning more than 20% of the applicant's stock or other resources, all subsidiary/affiliated companies with type of business performed, street addresses, all parent companies with addresses, all companies with which the applicant's company shares two or more members of the board of directors, and the name(s) of the person(s) serving as the applicant's local chief operating officer(s) with respect to each facility covered by the permit in question or for the statement required for filing Statuses 2 or 3. [Note: For companies that do not have a *facility* located in Delaware, no listing for the local chief operating officer(s) is required].

- ☒ Information attached
- ☐ Information attached, except for local chief operating officer as there is no facility located in the State of Delaware.

B. **(Authority - 7 Del. C. § 7905)** Please check one of the following selections below, showing type of ownership for the applicant/statement company:

☐	Proprietorship	List the state, county, book record and page number where the certificate is found (Attach hereto).
☐	Partnership	List the state, county, book record and page number where the certificate is found (Attach hereto).
☒	Corporation (LLCs included)	List the city, state, date of incorporation, corporation file number, current corporate standing, registered agent, and address of the registered agent (Attach hereto).
☐	Municipality	
☐	Public Institution/ Government Agency	
☐	Other	_____

Attachment O

C. **(Authority - 7 Del. C. § 7902(a)(3) & § 7905)** Have any of the following been issued to or agreed to by the applicant/statement company, any employee, person, entity, or subsidiary/affiliated company, specified in response to Item A, for violation of any environmental statute, regulation, permit, license, approval, or order, regardless of the state in which it occurred, during the five years prior to the date of this application/statement

OFFENSE	YES	NO
Notice of Violation(s)		X
Administrative Order(s)		X
Administrative Penalty(ies)		X
Civil Action(s)		X
Civil Penalty(ies)		X
Civil and/or Administrative Settlement Agreement(s)		X
Permit/License/Approval Revocation		X
Arrest(s)		X
Conviction(s)		X
Criminal Penalty(ies)		X
Criminal Plea Bargain		X

Attachment O

D. **(Authority - 7 Del. C. § 7902(a)(3), (a)(4) & § 7905)** If you answered "yes" to any of the actions listed in Item C above for the applicant company or any other person identified in Item A, attach a description of the incidents or events leading to the issuance of each action, regardless of the state in which it occurred, for the 5 years prior to the date of the statement, and . the disposition of each action, what state the action/offense occurred in, and any actions that have been taken to correct the violations that led to such enforcement action.

☒ N/A

☐ Information attached

E. **(Authority - 7 Del. C. § 7902(a)(5) & § 7905)** Attach a description of any felony or other criminal conviction for a crime involving harm to the environment or violation of environmental standards of any person or entity identified in Item A above that resulted in a fine greater than $1,000 or a sentence longer than 7 days, regardless of whether such fine or sentence was suspended.

☒ N/A

☐ Description attached

F. **(Authority - 7 Del. C. § 7902(a)(6) & § 7905)** Attach copies of any and all settlements of environmental claims involving the applicant, associated with actions identified in response to Item D above, whether or not such settlements were based on agreements where the applicant did not admit liability for the action.

☒ N/A

☐ Information attached

Attachment O

Items for Filing Statuses 2 or 3 Only

G. (Authority - 7 Del. C. § 7902(a)(7) and § 7905) If the applicant/statement company has been found guilty, pled guilty or no contest, to any crime involving violation of environmental standards which resulted in serious physical injury or serious harm to the environment attach a summary of the events involved and a copy of the disposition of the action (*See 7 Del. C. § 7902(c) for definitions of "serious physical injury" or "serious harm to the environment" before answering this question.*)

☒ N/A

☐ Yes – Information Attached.

H. (Authority - 7 Del. C. § 7902(a)(8)) – If the applicant/statement company has been designated a chronic violator under 7 Del. C. § 7904, a detailed written report from an independent inspector who has inspected the applicant's premises for the purpose of detecting potential safety and environmental hazards to employees and the surrounding community. The Secretary may waive the duty to submit a detailed written report upon a showing of good cause by the applicant. A showing by the applicant that the acts which caused it to be designated as a chronic violator did not jeopardize public health shall constitute "good cause" under this paragraph.

I. (Authority - 7 Del. C. § 7902(a)(7)) – If the applicant has been designated a chronic violation under § 7904 of this Title, ***OR*** has been found guilty or pled no contest to any crime involving violation of environmental standards which resulted in serious physical injury or serious harm to the environment, a statement made under oath by the applicant's local chief operating officer with respect to the facilities covered by the permit, stating that: (a) disclosures made by the applicant/reporting company under federal and state environmental statutes and regulations during the preceding calendar year have been, to the chief operating officer's knowledge, complete and accurate, and (b) that the facility has implemented policies, programs, procedures, standards or systems reasonably designated, in light of the size, scope, and nature of facility operations to detect deter and promptly correct any noncompliance with state environmental statutes and regulations. The statement filed pursuant to this paragraph shall include an acknowledgement by the affiant that intentionally false statements submitted in compliance with this paragraph constitute criminal perjury as defined at 11 Del. C. §§1221-1222.

Attachment O

STATE OF DELAWARE – DEPT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

ENVIRONMENTAL PERMIT BACKGROUND STATEMENT

CERTIFICATION

I HEREBY CERTIFY THAT I HAVE READ THE PRECEEDING SUBMISSION, HAVE PROVIDED ALL OF THE INFORMATION REQUESTED, AND THAT ALL OF THE INFORMATION PROVIDED IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

_____ DATE: 1/13/15

SIGNATURE—OFFICER OF APPLICANT / STATEMENT COMPANY

NAME: Kenneth Laubsch

TITLE: President and CEO

COMPANY NAME: Green Recovery Technologies, LLC

ADDRESS: 42 Lukens Drive, Suite 100
New Castle, DE 19720

TELEPHONE: 302.691.7458

FAX NUMBER:

REGISTERED AGENT NAME: Stephanie L. Hansen

ADDRESS: 1000 North King Street, Wilmington DE 19801

TELEPHONE: 302.571.6733

FAX NUMBER: 302.576.3519

SWORN TO AND SUBSCRIBED

BEFORE ME THIS _____ DAY OF

_____, _____.

_____
NOTARY PUBLIC SIGNATURE (SEAL)

_____
PRINTED NAME OF NOTARY PUBLIC

_____
STATE / COUNTY

MY COMMISSION EXPIRES ON: _____

jmb:20-24.doc/Rev. 7/2006

Attachment O

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DATE: 1/13/15

NAME: Kenneth Laubsch

TITLE: President and CEO

COMPANY NAME: Green Recovery Technologies, LLC

ADDRESS: 42 Lukens Drive, Suite 100
New Castle, DE 19720

TELEPHONE: 302.691.7458

FAX NUMBER:

REGISTERED AGENT NAME: Stephanie L. Hansen

ADDRESS: 1000 North King Street, Wilmington DE 19801

TELEPHONE: 302.571.6733

FAX NUMBER: 302.576.3519

SWORN TO AND SUBSCRIBED

BEFORE ME THIS 13 DAY OF

February, 2015.

NOTARY PUBLIC SIGNATURE (SEAL)

Jennifer Girouard

PRINTED NAME OF NOTARY PUBLIC

Delaware / New Castle

STATE / COUNTY

MY COMMISSION EXPIRES ON: 2/19/16

jmb:20-24.doc/Rev. 7/2006

Attachment O

Environmental Permit Application Background Statement
January 8, 2015

Green Recovery Technologies, LLC
42 Lukens Drive, Suite 100
New Castle, DE 19720

Board of Directors:

1. Bruce J. Rudin — Corporate Officer
2. Kenneth L. Laubsch — President and CEO
3. Seth Neubardt
4. Peter M. Witherell

No subsidiary companies

Green Recovery Technologies, LLC is a DE Corporation
Registered office:
Green Recovery Technologies, LLC c/o William Humphreys & Company
1831 Delaware Avenue
Wilmington, New Castle County, DE 19806

Date of Incorporation: September 9, 2011
File Number: 5036061
Corporate Standing: Active and in good standing

Registered Agent for Engineering:
Patrick Heringslack
Verrico Associates
137 West State Street
Kennett Square, PA 19348
Phone: 610.444.9752
Fax: 610.444.9754

Registered Agent for Service of Process:
Young, Conaway, Stargatt, & Taylor, LLP
Stephanie L. Hansen
Rodney Square
1000 North King Street
Wilmington, DE 19806
Phone: 302.571.6733
Fax: 302.576.3519

GREEN RECOVERY TECHNOLOGIES
42 Lukens Drive, Suite 100 New Castle, DE 19720

Attachment 01

January 8, 2015

To Whom It May Concern:

Stephanie L. Hansen of Young Conaway Stargatt & Taylor, LLP Rodney Square, 1000 North King Street, Wilmington, DE 19801 is authorized to act on behalf of Green Recovery Technologies LLC related to the Coastal Zone permit application process for 42 Lukens Drive New Castle, DE 19720

Signature

Kenneth Lanbsch

Printed Name

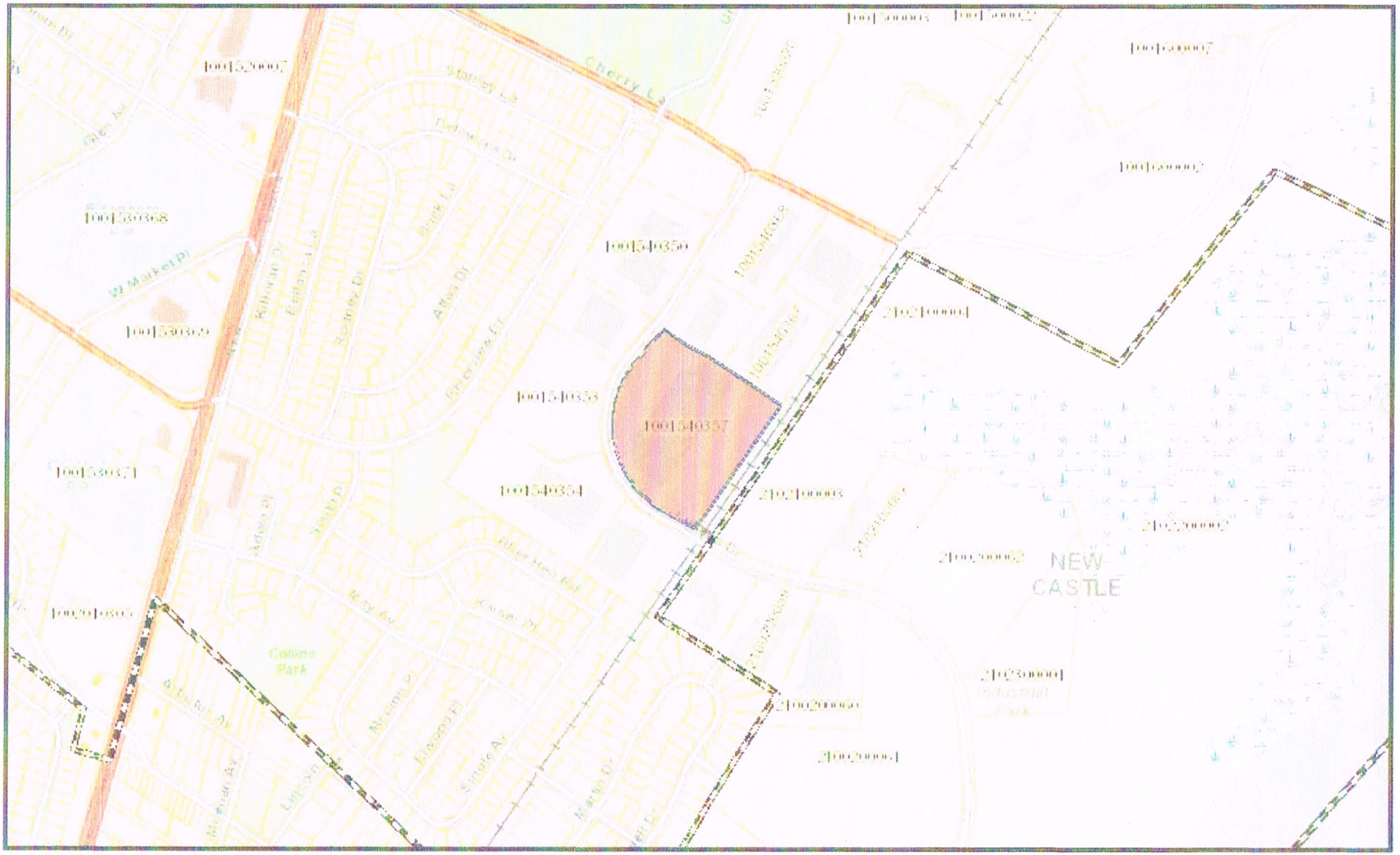
President

Title

GREEN RECOVERY TECHNOLOGIES LLC

GRT Proprietary
Distribution is Limited to Green Recovery Technologies Employees and their Assignees Under Contract
The contents of this letter and any attachments are confidential and are intended solely for addressee. The information may also be proprietary information and legally privileged. This transmission is sent in trust, for the sole purpose of delivery to the intended recipient. If you have received this transmission in error, any use, reproduction or dissemination of this transmission is strictly prohibited. If you are not the intended recipient, please immediately notify the sender by e-mail, mail, or phone and delete this message and its attachments.

Attachment 02



42 Lukens Drive, New Castle, DE (Tax Parcel #1001540357)

Author: NCC GIS Map Viewer

N
W E
S

Date: 2/5/2015

New Castle County Delaware GIS: http://gis.nccde.org

Disclaimer: For informational purposes only - not to be used as official documentation.

mi
0 0.095 0.19

Attachment 02

Attachment 03

Thomas P. Gordon
County Executive

Eileen P. Fogarty
General Manager

Department of Land Use

February 5, 2014

In reply, refer to:
2014-0037-V
42 Lukens Drive

Alan G. Steinle, P.E.
VanDemark & Lynch, Inc.
4305 Miller Road
Wilmington, DE 19802

Dear Alan Steinle,

The New Castle County Department of Land Use is in receipt of your request for a verification of zoning and use for tax parcel number 10-015.40-357, which is located at 42 Lukens Drive in New Castle, Delaware.

A review of the Official Zoning Map of New Castle County indicates the subject parcel is zoned **HI (Heavy Industrial),** which **permits heavy industrial uses, including animal food, meat product, and seafood product manufacturing**, pursuant to Table 40.03.110 and Section 40.33.270.C of the *New Castle County Code*. No variances or building or zoning code violations were found for the subject parcel in a search of the County tax parcel information system. **Please note that the proposed foundations constitute impervious cover, the maximum allowable of which in a Class C Wellhead area is fifty (50) percent. The applicant is encouraged to submit evidence that the proposed foundation will not cause the site to exceed the maximum allowable impervious cover.**

A Record Resubdivision Plan for Riveredge II and Lot 7, Riveredge Park (microfilm number 9954) was recorded in the Office of the Recorder of the Deeds for New Castle County on August 10, 1989. The approval and recordation of this plan indicate compliance with the subdivision and zoning code regulations in effect at that time. Any new construction or changes in use to that shown on the record plans will require compliance with current UDC regulations. A Record Minor Subdivision and Land Development Plan for Riveredge VI & VII (microfilm number 10384) was recorded in the Office of the Recorder of the Deeds for New Castle County on May 4, 1990. While this plan does not depict the subject property, it did vacate the Venture Court right-of-way, which has the effect of eliminating the street yard setback that would have impacted 42 Lukens Drive. A copy of the recorded plan is enclosed for your information as well.

Please be advised that this letter only verifies whether the type of use that exists or is proposed on the site – to the extent you described it in your zoning verification application – is permitted, not permitted, or permitted under limited circumstances in the zoning district. **This letter is not**

Attachment 03

a permit and does not offer any guarantee that any other required plans, applications, certifications, or variances for your project will be approved.

If your project involves an expansion of the existing use, a change of use, alterations to the building or site, demolition, or new construction, one or more permits may be needed before you can initiate the use. The following is a summary of Department of Land Use permits, certificates, and plans that may be required for your project:
Any new use or change of use in an existing building may require:

1. **Limited Use Permit**. If the existing or proposed use is identified as a "limited use" on the first page of this letter you will need to apply for a Limited Use Permit. This application must be accompanied by a site plan, or other supporting documentation, demonstrating that the special standards for that use are met. Refer to Articles 3 and 31 of the Unified Development Code for additional information.
2. **Certificate of Use**. To either institute a new use, or expand an existing use, in an existing building you must obtain a Certificate of Use. The Department will determine whether the building meets the BOCA Code (building code) and parking requirements for such use. Refer to Chapter 6, Article 2 of the *New Castle County Code* (Building and Property Regulations) for additional information.

Any new construction, or alteration or expansion of existing buildings and features on the site may require:

1. **Major or Minor Land Development Plan**. If your project will subdivide land or add more than 1,000 square feet of gross floor area, you must submit a major or minor land development plan. The plan will be reviewed for compliance with the land development criteria outlined in the Unified Development Code. During review of the plan, the Department may hold public hearings and may identify other applications, plans, studies, or permits that need to be submitted before development can commence. Refer to Article 31 of the Unified Development Code for general requirements.
2. **Parking Plan.** If your project requires installation, expansion, or reconfiguration of a parking lot, you will need to submit a parking plan. Refer to Articles 3 and 31 of the Unified Development Code for general requirements.
3. **Building Permit / Demolition Permit / Sign Permit**. If your project will involve altering or enlarging a building (including mechanical systems), demolishing all or part of a building, or installing new signs, you must obtain permits for those activities. During the review of these applications, the Department may identify other applications, plans, studies, or permits that need to be submitted before development can commence. Before the new or improved building can be inhabited, a **Certificate of Occupancy** must be secured from the Department. Refer to Chapter 6, Article 2 of the *New Castle County Code* (Building and Property Regulations) for additional information.

This summary of Department of Land Use permit applications is intended only for general informational purposes and is not intended to be inclusive of the comprehensive requirements contained in the *New Castle County Code*. Please be advised that some of the review processes

Attachment 03

described above may also require recommendations or decisions from County boards (Planning Board, Historic Review Board, Board of Adjustment, and Resource Protection Area Technical Advisory Committee) or outside agencies. New Castle County must abide by regulations imposed on it by a variety of State and Federal agencies. Accordingly, any of the County permits described above may be subject to additional review processes that address environmental concerns; resource protection; public health, safety, and welfare; and a variety of other issues. In some cases, landowners may need to address the requirements of those agencies independently.

Landowners contemplating a change of use, future development, or alterations to buildings and land are encouraged to engage the services of an engineer, land surveyor, and/or attorney for advice on any physical constraints that may limit development of the property, and guidance on what permits may be needed to commence a new use or development.

General questions regarding the plan review process; building, demolition, and sign permits; and Certificates of Use/Occupancy, can be answered by the Department at 395-5400. Thank you for your attention to this matter.

Sincerely,

Anna Cava Grosso

Anna Cava Grosso
Planner I

Joe Caulfield
CTO
GNT

Attachment 04

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFD 1910 180 Standard must be
consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No 1218-0072

IDENTITY *(As Used on Label and Use)*
Poultry Fines Feedstock

Note: Blanks are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I – Company Identification

Manufacturer's Name Green Recovery Technologies, LLC	Emergency Telephone Number 267.303.3201
Address (Number, Street, City, State and Zip Code) 42 Lukens Drive, Suite 100	Telephone Number for Information 302.691.7468
New Castle, DE 19720	Date Prepared 01.02.2015
	Signature of Preparer *(optional)*

Section II – Hazardous Ingredients

Hazardous Components (Specific Chemical Identity: Common Name(s))	CAS Nr	ONU Nr	Other Limits Recommended	% (Optional)
Hazardous Components - Contains no Hazardous Components as described in the Hazard Communication Standard				
Substance – Dried poultry processing fines				
Trade Names – Poultry Fines				
Chemical Family: N/A				
Molecular Formula: N/A				
Molecular Weight: N/A				
Components and Contaminants				
Components: Poultry protein, fat, ash, feather, water and mineral components. Percent: 100%				
Other Contaminants: None				
Exposure Limits: N/A				

Section III a – Identity Information of Product

Commercial Name Poultry fines	Chemical Name or Code N/A
Chemical Family N/A	Chemical Formula N/A
Synonyms N/A	CAS N/A

Section III b – Physical / Chemical Characteristics

Boiling Point	Decomposes	Specific Gravity (H2O = 1)	0.92
Vapor Pressure (mm Hg.)	N/A	Melting Point	Decomposes
Vapor Density (AIR =1)	N/A	Evaporation Rate (Butyl Acetate = 1)	0

Solubility in Water
Insoluble

Appearance and Odor
Dark solid format, having the characteristic look and odor of enriched soil

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) 485F	Flammable Limits N/A	LEL N/A	UEL N/A

Extinguishing Media
Type A or B

Special Fire Fighting Procedures
None

Unusual Fire and Explosion Hazards
None

Attachment 04

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable Stable		None

Incompatibility *(Materials to Avoid)*
Keep away from strong oxidizers

Hazardous Decomposition or Byproducts
None

Hazardous Polymerization	May Occur		Conditions to Avoid Keep away from strong oxidizers
	Will Not Occur X		

Section VI – Health Hazard Data

Route(s) of Entry:	Inhalation	Skin & Eye	Ingestion
	N/A	Possible	Possible

Health Hazards *(Acute and Chronic)*
N/A

Carcinogenicity	NTP?	IARC Monographs	OSHA Regulated?
N/A	N/A	N/A	N/A

Signs and Symptoms of Exposure
For skin and eye exposure, redness at the contact site may occur. For ingestion, nausea and vomiting may occur.

Medical Conditions Generally Aggravated by Exposure
N/A

Emergency and First Aid Procedures
For skin contact, wash thoroughly with soap and water. For eye contact, flush thoroughly with water. For ingestion, seek medical attention immediately.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled
Sweep up spilled material and wash down affected area with soap and water.

Waste Disposal Method
Dispose of in sanitary landfill.

Precautions to Be Taken in Handling and Storing
Do not store near open flame or excessive heat

Other Precautions
Keep away from strong oxidizers.

Section VIII – Control Measures

Respiratory Protection *(Specify Type)*
None

Ventilation	Local Exhaust	Special
N/A	Mechanical *(General)*	Other

Protective Gloves	Eye Protection
Standard	Standard

Other Protective Clothing or Equipment
Standard

Work/Hygienic Practices
Standard

U.S.G.P.D. 1988-491-529/45775

Attachment 05

Diversified CPC International, Incorporated

Material Safety Data Sheet

Emergency Telephone Numbers: (815) 424-2000 CHANNAHON PLANT
(800) 424-9300 CHEMTREC

Product Name: Dimethyl Ether *Revision Date: 09-Jun-2014*

SECTION I PRODUCT IDENTIFICATION / COMPANY INFORMATION

Cas Registry #: 115-10-6
Chemical Family: Ether
Chemical Name: Dimethyl Ether
Chemical Formula: CH_3OCH_3

SECTION II COMPOSITION / DATA ON COMPONENTS

GHS Classification: Flammable Gases, 1, H220
Gases Under Pressure -- Liquefied Gas, H280

GHS Label Elements
Symbol(s):

Signal Words: Danger

GHS Hazard Statements:

Physical Hazards
H220: Extremely flammable gas.
H280: Contains gas under pressure; may explode if heated.
Gas may reduce oxygen in confined spaces.

Health Hazards

Environmental Hazards

Other Hazards
Rapid evaporation of the liquid may cause frostbite. Vapors are heavier than air and can cause suffocation by reducing available oxygen. May cause cardiac arrhythmia.

GHS Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response: P377: Leaking gas Fire: Do not extinguish, unless leak can be stopped safely.
P381: Eliminate all ignition sources if safe to do so.

Storage: P410+P403: Protect from sunlight. Store in a well-ventilated place.

SECTION III COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	TARGET (WT%)
Dimethyl Ether	115-10-6	100

SECTION IV FIRST AID MEASURES

Emergency First Aid Procedures

Eye Contact: For liquid contact, irrigate with running water for minimum of 15 minutes. Seek medical attention.

Attachment 05

Skin Contact: For liquid contact, warm areas gradually and get medical attention if there is evidence of frost bite or tissue damage. Flush area with lukewarm water. Do not rub affected area. If blistering occurs, apply a sterile dressing. Seek medical attention.

Inhalation: Remove to fresh air. Artificial respiration and/or oxygen may be necessary. Consult a physician.

Ingestion: This material is a gas under normal atmospheric conditions and ingestion is unlikely.

Most important symptoms and effects

Acute: Anesthetic effects at high concentrations.

Delayed: None known or anticipated. See Section 11 for information on effects from chronic exposure, if any.

Notes to Physician: Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations (e.g., in enclosed spaces or with deliberate abuse). The use of other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

SECTION V FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Water spray, Water mist, Foam, Dry chemical or Carbon Dioxide. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Fire Fighting Procedures:
For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. If this cannot be done, allow fire to burn. Move undamaged containers from immediate hazard area if it can be done safely. Stay away from ends of container. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely.

Unusual Fire and Explosion Hazards:
Extremely flammable. Contents under pressure. This material can be ignited by heat, sparks, flames, or other sources of ignition. The vapor is heavier than air. Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. If container is not properly cooled, it can rupture in the heat of a fire. Drains can be plugged and valves made inoperable by the formation of ice if rapid evaporation of large quantities of the liquefied gas occurs. Do not allow run-off from fire fighting to enter drains or water courses – may cause explosion hazard in drains and may reignite.

Hazardous Combustion Products: Combustion may yield smoke, carbon monoxide and other products of incomplete combustion. Oxides of nitrogen and sulfur may also be formed.

See Section 9 for Flammable Properties Including Flash Point and Flammable (Explosive) Limits.

NPCA - HMIS RATINGS

HEALTH	1	
REACTIVITY	1	
PERSONAL PROTECTION	-	*(Personal Protection Information To Be Supplied By The User)*

SECTION VI ACCIDENTAL RELEASE MEASURES

Steps To Be Taken If Material Is Released or Spilled

Attachment 05

Avoid sources of ignition - ventilate area. Use water fog to evaporate or ventilate. Protect body against contact with liquid. If confined space - use self contained breathing apparatus. Consult local fire authorities.

Personal Precautions: Extremely flammable. Spillages of liquid product will create a fire hazard and may form an explosive atmosphere. Keep all sources of ignition and hot metal surfaces away from spill/release if safe to do so. The use of explosion-proof electrical equipment is recommended. Beware of accumulation of gas in low areas or contained areas, where explosive concentrations may occur. Prevent from entering drains or any place where accumulation may occur. Ventilate area and allow to evaporate. Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons downwind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions: Stop spill/release if it can be done safely. Water spray may be useful in minimizing or dispersing vapors. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

Methods for Containment and Clean-Up: Notify relevant authorities in accordance with all applicable regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken.

SECTION VII HANDLING AND STORAGE

Precautions for safe handling: Comply with state and local regulations. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Keep away from heat or sources of ignition. Prohibit smoking in areas of storage or use. Take precautionary measures against static discharge. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Contents are under pressure. Gases can accumulate in confined spaces and limit oxygen available for breathing. Use only with adequate ventilation. The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-70 and/or API RP 2003 for specific bonding/grounding requirements. Electrostatic charge may accumulate and create a hazardous condition when handling or processing this material. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146.

Conditions for safe storage: Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Store only in approved containers. Post area "No Smoking or Open Flame." Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Avoid exposing any part of a compressed-gas cylinder to temperatures above 125F (51.6C). Gas cylinders should be stored outdoors or in well ventilated storerooms at no lower than ground level and should be quickly removable in an emergency.

SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Component	ACIGH 2014 TLV (TWA)	ACIGH 2014 TLV (STEL)	OSHA PEL (TWA)	OTHER PEL
Dimethyl Ether				1000 ppm Dupont AEL

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Engineering Controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

Personal Protection:

Eye/Face Protection: The use of eye protection (such as splash goggles) that meets or exceeds ANSI Z.87.1 is recommended when there is potential liquid contact to the eye. Depending on conditions of use, a face shield may be necessary.

Skin Protection: Impervious, insulated gloves recommended.

Respiratory Protection: A NIOSH approved, self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode should be used in situations of oxygen deficiency (oxygen content less than 19.5 percent), unknown exposure concentrations, or situations that are immediately dangerous to life or health (IDLH).
A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Clear, colorless liquefied gas with a slight ethereal odor.
Odor Threshold: No Data
pH: Not Applicable

Melting / Freezing Point:	No Data	**Initial Boiling Point / Range:**	-13 °F
Flash Point (Method):	-42 °F (TOC)	**Evaporation Rate:**	> 1 (Ethyl Ether = 1.0)
Lower Explosion Limit:	3.4% (vol.) Gas in air	**Upper Explosion Limit:**	18% (vol.) Gas in air
Vapor Pressure @ 70 °F:	62 PSIG	**Vapor Density (air = 1.00):**	1.6
Specific Gravity (H2O = 1.00):	0.66	**Solubility in Water @ 70 °F:**	7%
Percent Volatile by Volume:	100%	**Auto-ignition temperature:**	662 °F
Decomposition Data:	No Data	**Viscosity:**	No Data

SECTION X STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Can not occur
Incompatibility (Materials to Avoid): Oxygen, oxidizers, Carbon monoxide, acetic acid, Acid anhydrides.
Hazardous Decomposition Products: If heated with peroxides present, violent decomposition can occur.
Conditions to Avoid: High heat, spark, and open flames

SECTION XI TOXICOLOGICAL INFORMATION

Effects Of Over Exposure

Ingestion: Aspiration hazard!
Inhalation: Inhalation of vapor may produce anesthetic effects and feeling of euphoria. Prolonged overexposure can cause rapid breathing, headache, dizziness, narcosis, unconsciousness, and death from asphyxiation, depending on concentration and time of exposure.
Skin Contact: Contact with evaporating liquid can cause frostbite.
Eye Contact: Liquid can cause severe irritation, redness, tearing, blurred vision, and possible freeze burns.

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Specific Target Organ Toxicity (Single Exposure): Not expected to cause organ effects from single exposure.
Specific Target Organ Toxicity (Repeated Exposure): Not expected to cause organ effects from repeated exposure.
Carcinogenicity: Not expected to cause cancer. This substance is not listed as a carcinogen by IARC, NTP or OSHA.
Germ Cell Mutagenicity: Not expected to cause heritable genetic effects.
Reproductive Toxicity: Not expected to cause reproductive toxicity.

Other Comments: High concentrations may reduce the amount of oxygen available for breathing, especially in confined spaces. Hypoxia (inadequate oxygen) during pregnancy may have adverse effects on the developing fetus.

Information on Toxicological Effects of Components
Dimethyl Ether

Acute oral toxicity	
Dimethyl ether	Not applicable
Acute inhalation toxicity	
Dimethyl ether	LC50/rat: 164000 ppm Respiratory effects, anaesthetic effects, central nervous system depression, narcosis, cardiac irregularities, coma. / dog Cardiac sensitization.
Acute dermal toxicity	
Dimethyl ether	Not applicable
Skin irritation	
Dimethyl ether	Not tested on animals. Classification: Not classified as irritant. Result: No skin irritation. Not expected to cause skin irritation based on expert review of the properties of the substance.
Eye irritation	
Dimethyl ether	Not tested on animals. Classification: Not classified as irritant. Result: No eye irritation. Not expected to cause eye irritation based on expert review of the properties of the substance.
Sensitisation	
Dimethyl ether	Not tested on animals. Classification: Not classified as skin sensitizer. Not expected to cause sensitization based on expert review of the properties of the substance. There are no reports of human respiratory sensitization.
Repeated dose toxicity	
Dimethyl ether Inhalation rat:	No toxicologically significant effects were found.
Mutagenicity assessment	
Dimethyl ether	Animal testing did not show mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment
Dimethyl ether — Animal testing did not show any carcinogenic effects.

Toxicity to reproduction assessment
Dimethyl ether — No toxicity to reproduction.

Further information May cause cardiac arrhythmia. Rapid evaporation of the liquid may cause frostbite. *Carcinogenicity:* Animal testing did not show any carcinogenic effects.

SECTION XII ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish
Dimethyl ether — LC50/96 h/Poecilia reticulate (guppy): >4000 mg/l

Toxicity to aquatic invertebrates
Dimethyl ether — EC50/48 h/Daphnia: >4000 mg/l
LC50/48 h/Daphnia: 755,549 mg/l

Chronic toxicity to fish
Dimethyl ether — Due to its physical properties, there is no potential for adverse effects.

Persistence and degradability
Biodegradability — Method: Closed bottle test. According to the results of tests of biodegradability this product is not readily biodegradable.
Physio-chemical removability — The product can be degraded by abiotic (e.g. chemical or photolytic) processes.

Bio-accumulation potential — No data available.

Mobility in soil — Koc: 7,759

Results of PBT and vPvB Assessment — This substance is not considered to be persistent, bio-accumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bio-accumulating (vPvB).

Other adverse effects
Ozone depletion potential — 0
Global warming potential (GWP) — 1

SECTION XIII DISPOSAL INFORMATION

Contain the spill. Eliminate sources of ignition. Use water spray to reduce vapors. For small spills, take up with absorbent material. If confined space - use self contained breathing apparatus. Consult local fire authorities.

Waste Disposal
Reclaim by distillation, incinerate, or remove to a permitted waste facility.

*** Comply With All State and Local Regulations ***

SECTION XIV TRANSPORT INFORMATION

Transport Information

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Dimethyl Ether
2.1, Flammable Gas, UN1033
LABELED / Placarded Flammable Gas

SECTION XV REGULATIONS

Regulatory Information

Chemical Inventories
USA TSCA: All components of this product are listed on the TSCA Inventory.
Europe Einecs: All components in this product are listed on EINECS
Canada Domestic Substances List (DSL): This product and/or all of its components are listed on the Canadian DSL.
Australia AICS: All components of this product are listed on AICS.
Korea ECL: All components in this product are listed on the Korean Existing Chemicals Inventory (KECI).
Japan Miti (ENCS): All components of this product are listed on MITI.

SARA Title III:
CERCLA/SARA (Section 302) Extremely Hazardous Substances and TPQs (in pounds):
This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

SARA (311, 312) Hazard Class:

Acute Health:	Yes
Chronic Health:	No
Fire Hazard:	Yes
Pressure Hazard:	Yes

SARA (313) Chemicals: Not listed

California Proposition 65: This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

EC Classification:
[redacted] F+ Extremely flammable
Risk phrases:
12 Extremely flammable.
Safety phrases:
9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition -No smoking.
33 Take precautionary measures against static discharges.

SECTION XVI OTHER INFORMATION

Watch for leaks and spills. Keep containers sealed and store in cool, well-ventilated area. Bond and ground containers during liquid transfer. Provide means to control leaks and spills. Protect from sources of ignition. Prohibit smoking in areas of storage or use. Do not mix with finely divided alkali or alkaline earth metals. Comply with all state and local regulations.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information

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relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Attachment 06

NITROGEN, GAS

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	**NITROGEN, GAS**
Product Code(s)	**G-7, 1018**
UN-No	**UN1066**
Recommended Use	Compressed gas.
Synonyms	LASER Nitrogen; LASER Nitrogen Ultra; Nitrogen, compressed
Supplier Address*	Linde Gas North America LLC - Linde Merchant Production Inc. - Linde LLC 575 Mountain Ave. Murray Hill, NJ 07974 Phone: 908-464-8100 www.lindeus.com Linde Gas Puerto Rico, Inc. Las Palmas Village Road No. 869, Street No. 7 Catano, Puerto Rico 00962 Phone: 787-641-7445 www.pr.lindegas.com Linde Canada Limited 5860 Chedworth Way Mississauga, Ontario L5R 0A2 Phone: 905-501-1700 www.lindecanada.com * May include subsidiaries or affiliate companies/divisions. For additional product information contact your local customer service.
Chemical Emergency Phone Number	Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Simple asphyxiant
Contents under pressure
Keep at temperatures below 52°C / 125°F

Appearance Colorless | **Physical State** Compressed gas. | **Odor** Odorless

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

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Principle Routes of Exposure Inhalation.

Acute Toxicity

Inhalation Simple asphyxiant. May cause suffocation by displacing the oxygen in the air. Exposure to oxygen-deficient atmosphere (<19.5%) may cause dizziness, drowsiness, nausea, vomiting, excess salivation, diminished mental alertness, loss of consciousness and death. Exposure to atmospheres containing 8-10% or less oxygen will bring about unconsciousness without warning and so quickly that the individuals cannot help or protect themselves. Lack of sufficient oxygen may cause serious injury or death.

Eyes This product is a gas at room temperature. Contact with liquid may cause frostbite.

Skin This product is a gas at room temperature. Contact with liquid may cause frostbite.

Skin Absorption Hazard No known hazard in contact with skin.

Ingestion Not an expected route of exposure.

Chronic Effects None known.

Aggravated Medical Conditions None known.

Environmental Hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Volume %	Chemical Formula
Nitrogen	7727-37-9	>99	N_2

4. FIRST AID MEASURES

Eye Contact None required for gas. If frostbite is suspected, flush eyes with cool water for 15 minutes and obtain immediate medical attention.

Skin Contact None required for gas. For dermal contact or suspected frostbite, remove contaminated clothing and flush affected areas with lukewarm water. DO NOT USE HOT WATER. A physican should see the patient promptly if contact with the product has resulted in blistering of the dermal surface or in deep tissue freezing.

Inhalation PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF INHALATION OVEREXPOSURE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS. Conscious inhalation victims should be assisted to an uncontaminated area and inhale fresh air. If breathing is difficult, administer oxygen. Unconscious persons should be moved to an uncontaminated area and, as necessary, given artificial resuscitation and supplemental oxygen. Treatment should be symptomatic and supportive.

Ingestion None under normal use. Get medical attention if symptoms occur.

Notes to Physician Treat symptomatically.

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5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Explosion Data	
Sensitivity to Mechanical Impact	None
Sensitivity to Static Discharge	None
Specific Hazards Arising from the Chemical	Cylinders may rupture under extreme heat. Continue to cool fire exposed cylinders until flames are extinguished. Damaged cylinders should be handled only by specialists.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Evacuate personnel to safe areas. Use personal protective equipment. Monitor oxygen level.
Environmental Precautions	Prevent spreading of vapors through sewers, ventilation systems and confined areas.
Methods for Containment	Stop the flow of gas or remove cylinder to outdoor location if this can be done without risk. If leak is in container or container valve, contact the appropriate emergency telephone number in Section 1 or call your closest Linde location.
Methods for Cleaning Up	Return cylinder to Linde or an authorized distributor.

7. HANDLING AND STORAGE

Handling

Use only in ventilated areas. Never attempt to lift a cylinder by its valve protection cap. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distance, use a cart designed to transport cylinders. Use equipment rated for cylinder pressure. Use backflow preventive device in piping. Never insert an object (e.g. wrench, screwdriver, pry bar,etc.) into valve cap openings. Doing so may damage valve, causing leak to occur.

Use an adjustable strap wrench to remove over-tight or rusted caps. Close valve after each use and when empty. If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.

Never put cylinders into trunks of cars or unventilated areas of passenger vehicles. Never attempt to refill a compressed gas cylinder without the owner's written consent. Never strike an arc on a compressed gas cylinder or make a cylinder a part of an electrical circuit.

For additional recommendations consult Compressed Gas Association's (CGA) Safety Bulletin SB-2, Oxygen-Deficient Atmospheres.

For additional handling recommendations, consult Compressed Gas Association's pamphlets P-1, G-10.1, P-8.1, P-8.2, P-9, P-16, P-18, and Safety Bulletin SB-2.

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Storage Protect from physical damage. Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling. Store in cool, dry, well-ventilated area of non-combustible construction away from heavily trafficked areas and emergency exits. Keep at temperatures below 52°C / 125°F. Full and empty cylinders should be segregrated. Use a "first in-first out" inventory system to prevent full cylinders from being stored for excessive periods of time. Always store and handle compressed gas cylinders in accordance with Compressed Gas Association, pamphlet CGA-P1, Safe Handling of Compressed Gases in Containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Showers. Eyewash stations. Ventilation systems. Local exhaust ventilation to prevent accumulation of high concentrations and maintain air-oxygen levels at or above 19.5%.

Ventilation Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection If splashes are likely to occur, wear: Goggles. Face-shield.

Skin and Body Protection Wear cold insulating gloves when handling liquid. Work gloves and safety shoes are recommended when handling cylinders.

Respiratory Protection

General Use No special protective equipment required.

Emergency Use Use positive pressure airline respirator with escape cylinder or self contained breathing apparatus for oxygen-deficient atmospheres (<19.5%).

Hygiene Measures Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless.	**Odor**	Odorless.
Odor Threshold	No information available.	**Physical State**	Compressed gas
Flash Point	No information available.	**Autoignition Temperature**	No information available.
Decomposition Temperature	No information available.	**Boiling Point/Range**	-195.8°C / -320.4°F
Freezing Point	-209.9°C / -345.9°F	**Molecular Weight**	28.01
Water Solubility	Very slight	**Evaporation Rate**	No information available
Vapor Pressure	No data available.	**Vapor Density**	0.97 (air = 1)
Gas Density	0.072 lb/ft³ (1.153 kg/m³) (@ 21.1°C)	**VOC Content (%)**	Not applicable.
Specific Vol. @ 21.1°C & 1 atm	13.8 ft³/lb (0.867 m³/kg)	**Critical Pressure**	492.9 psia (3399 kPa abs)

Flammability Limits in Air

Upper	Not applicable
Lower	Not applicable

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10. STABILITY AND REACTIVITY

Stability	Stable.
Incompatible Products	None known.
Conditions to Avoid	None known.
Hazardous Decomposition Products	None known.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral:	No information available.
LD50 Dermal:	No information available.
LC50 Inhalation:	No information available.
Inhalation	Product is a simple asphyxiant.
Repeated Dose Toxicity	No information available.

Chronic Toxicity

Chronic Toxicity	None known.
Carcinogenicity	Contains no ingredient listed as a carcinogen.

Irritation	No information available.
Sensitization	No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	Oxygen deficiency during pregnancy has produced developmental abnormalities in humans and experimental animals.
Synergistic Materials	None known.
Target Organ Effects	None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Ozone depletion potential; ODP; (R-11 = 1): Does not contain ozone depleting chemical (40 CFR Part 82).

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13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Do not attempt to dispose of residual waste or unused quantities. Return in the shipping container PROPERLY LABELED WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE to Linde for proper disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Nitrogen, compressed
Hazard Class	2.2
Subsidiary Class	None
UN-No	UN1066
Description	UN1066,Nitrogen, compressed,2.2
Emergency Response Guide Number	121

TDG

Proper Shipping Name	Nitrogen, compressed
Hazard Class	2.2
UN-No	UN1066
Description	UN1066,NITROGEN, COMPRESSED,2.2

MEX

Proper Shipping Name	Nitrogen, compressed
Hazard Class	2.2
UN-No	UN1066
Description	UN1066, Nitrogen, compressed,2.2

IATA

UN-No	UN1066
Proper Shipping Name	Nitrogen, compressed
Hazard Class	2.2
ERG Code	2L
Description	UN1066,Nitrogen, compressed,2.2
Maximum Quantity for Passenger	75 kg
Maximum Quantity for Cargo Only	150 kg
Limited Quantity	No information available.

IMDG/IMO

Proper Shipping Name	Nitrogen, compressed
Hazard Class	2.2
UN-No	UN1066
EmS No.	F-C, S-V
Description	UN1066, Nitrogen, compressed,2.2

ADR

Proper Shipping Name	Nitrogen, compressed
Hazard Class	2.2
UN-No	UN1066
Classification Code	1A
Description	UN1066, Nitrogen, compressed,2.2

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15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
EINECS/ELINCS	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Risk and Process Safety Management Programs

This material, as supplied, does not contain any regulated substances with specified thresholds under 40 CFR Part 68.
This product does not contain any substances regulated as Highly Hazardous Chemicals pursuant to the 29 CFR Part 1910.110.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA/SARA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Nitrogen	X	X	X	-	X

International Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
A Compressed gases

16. OTHER INFORMATION

Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
Issuing Date	05-Mar-2010
Revision Date	31-Aug-2010
Revision Number	1
Revision Note	(M)SDS sections updated. 1.

NFPA	Health Hazard 0	Flammability 0	Stability 0	Physical and Chemical Hazards Simple asphyxiant
HMIS	Health Hazard 0	Flammability 0	Physical Hazard 3	Personal Protection -

Note: Ratings were assigned in accordance with Compressed Gas Association (CGA) guidelines as published in CGA Pamphlet P-19-2009, CGA Recommended Hazard Ratings for Compressed Gases, 3rd Edition.

General Disclaimer
For terms and conditions, including limitation of liability, please refer to the purchase agreement in effect between Linde LLC, Linde Merchant Production, Inc. or Linde Gas North America LLC (or any of their affiliates and subsidiaries) and the purchaser.

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End of Safety Data Sheet