

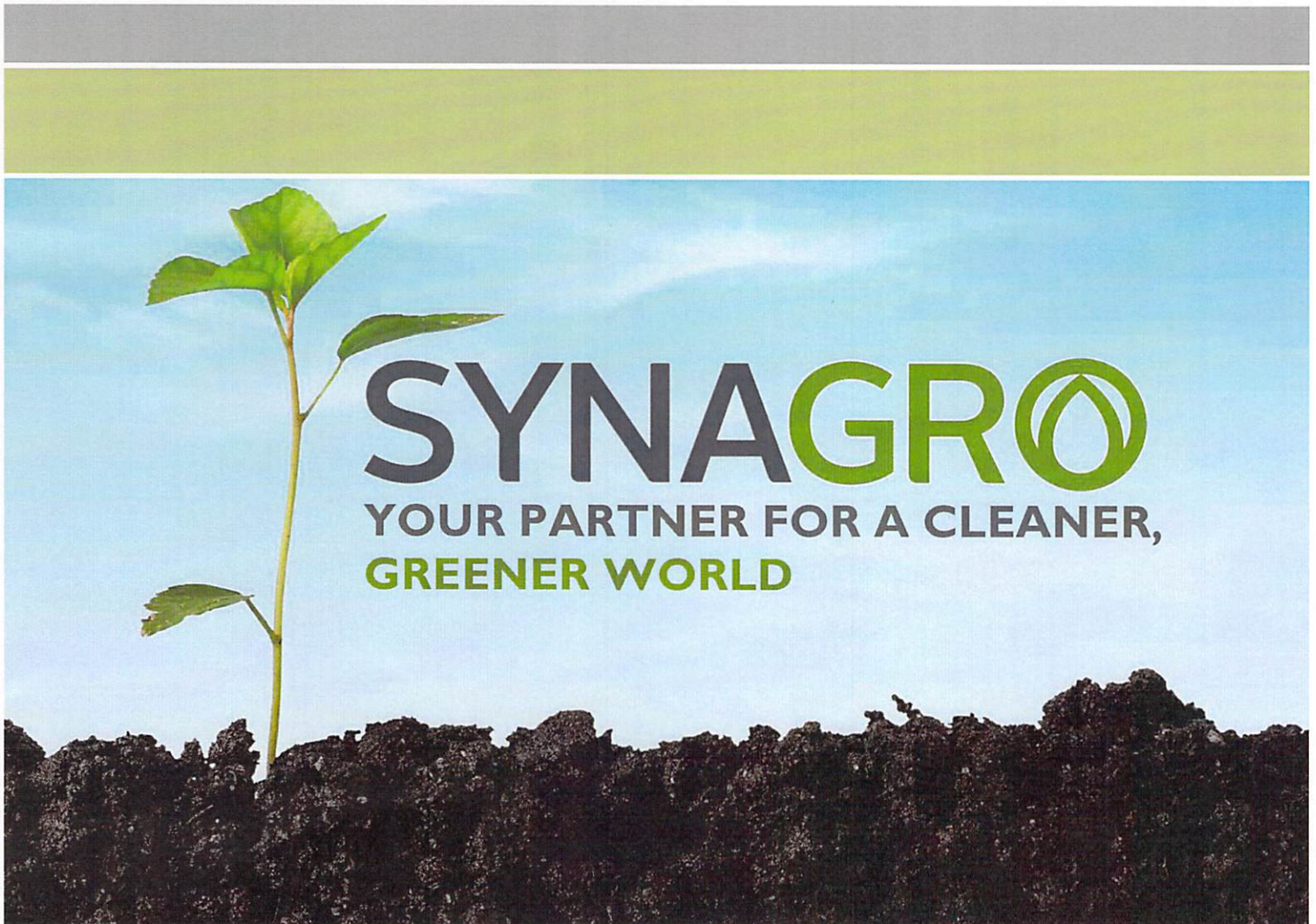
Proposal to Provide
Lime Sludge Hauling & Disposal Services

BID 2025-011

to



Submitted on
August 14, 2025



435 Williams Court, Suite 100
Baltimore, MD 21220
www.synagro.com



AUGUST 12, 2025

**City of Margate
5790 Margate Blvd.
Margate, FL 33063**

**Re: BID 2025-011
 Lime Sludge Hauling and Disposal Services**

Dear Ladies and Gentlemen:

Synagro South, LLC (Synagro) is pleased to respond to the Invitation to Bid for the City of Margate Lime Sludge Hauling and Disposal Services. We have enclosed for your review our completed bid package.

Having been in business for over 45 years, Synagro is one of the largest residuals management companies in the country with over 650 municipal and industrial customers and operations in 33 states. We provide ongoing residuals management services to numerous water and wastewater treatment plants throughout Florida and have extensive equipment and personnel resources to perform the services required for this project.

Synagro appreciates this opportunity. Should you have any questions regarding our submittal, please contact me at (813) 495-1060 cdebrunner@synagro.com. We look forward to hearing from you soon. Thank you.

Warm regards,

Curt DeBrunner

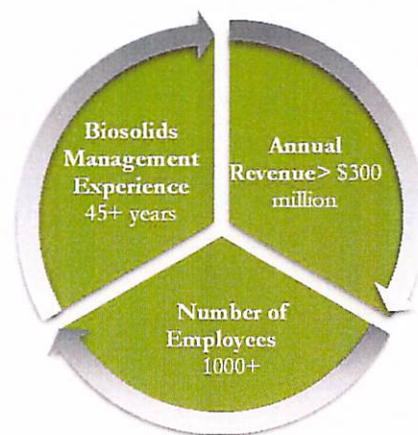
Curt DeBrunner
Area Sales Manager

CD:ek



Synagro Company Profile

Founded in 1986, Synagro's core business is the environmentally sound and economically viable management of municipal biosolids, including project development, operations and biosolids product distribution. Through this focus, Synagro has grown to be North America's leading provider of high-quality, cost-effective biosolids management and beneficial use solutions. We have been successfully meeting the biosolids management needs of hundreds of generators for more than 45 years. Synagro's experience in all areas of biosolids management is unparalleled.



Synagro annually manages more than 14 million tons of wastewater biosolids and other organic by-products. Synagro employs a team of 1000+ professional engineers, soil scientists, agronomists, construction managers, financial managers and the largest, most diverse operational staff in the industry. Our team is dedicated to working with our clients to find the right solution to their organic residuals management challenges. Synagro, and its subsidiaries, are at the forefront of the environmental movement to safely process and market organic residual materials for beneficial uses.

Synagro owns no proprietary technology which enables us to offer nearly all commercially viable processing options and product marketing channels for biosolids and organic residuals and allows us to develop projects that fit a municipality's unique needs. Our breadth of experience developing, building, financing as necessary, and operating and maintaining the complete range of biosolids options listed below is unique to Synagro.

- Heat-drying and pelletization
- Composting
- Incineration
- Digestion
- Product marketing
- Dewatering (installation and operation)
- Mobile dewatering
- Land application and reclamation
- Lagoon and digester cleaning
- Alkaline stabilization
- Rail transportation

Synagro currently operates 19 heat-drying facilities, three thermal processing facilities serving multiple regional generators, 9 composting facilities (8 of which provide an outlet for numerous generators), more than a dozen alkaline stabilization facilities, and in excess of 75 permanent and mobile dewatering facilities.



In addition, we provide final product distribution as a key component of many of these projects. Our Product Sales and Marketing team is responsible for successfully managing approximately 300,000 tons per year of AllGro® compost and 170,000 tons of Granulite® fertilizer pellets (heat-dried biosolids). We have unrivalled understanding of the markets for these products and continuously work to broaden the suite of outlets for these materials. As an example, Synagro pioneered the use of heat-dried biosolids as an alternative fuel resource in cement manufacturing. When Synagro operates a facility, we include product distribution services in our operation; however, we also work with municipally operated facilities to assist in managing their products.

In December 2020, Synagro was acquired by West Street Infrastructure Partners III, an infrastructure investment fund managed by Goldman Sachs Merchant Banking Division. Founded in 1869, The Goldman Sachs Group, Inc. is a leading global investment banking, securities, and investment management firm. Goldman Sachs Merchant Banking Division (MBD) is the primary center for the firm's long-term principal investing activity. MBD is one of the leading private capital investors in the world with investments across private equity, infrastructure, private debt, growth equity and real estate.

435 Williams Court, Suite 100
Baltimore, MD 21220
www.synagro.com



August 12, 2024

Delegation of Authority

Emil Kneis

I, Kaivan Desai, President and Chief Financial Officer of Synagro Technologies, Inc., and all its affiliates and subsidiaries, hereby delegate to Emil Kneis, Sales Support Manager, authority to sign as an officer or as an authorized signatory/person binding proposals, awarded contracts, contract renewals, contract extensions, bid bonds and performance/payment bonds. Also, I delegate to Emil Kneis the authority to sign as an officer or as any authorized signatory/person any business-related applications and other agreements as necessary to provide uninterrupted service to current and new customers.

Such authority does not alter Synagro's internal approval processes. This delegation of authority is valid from the date of this letter until revoked by me.



Kaivan Desai

President and Chief Financial Officer



NAME OF FIRM: Synagro South, LLC

ADDRESS: 435 Williams Court, Suite 100, Baltimore, MD 21220

NAME OF SIGNER Emil Kneis
(Print or Type)

TITLE OF SIGNER Sales Support Manager

SIGNATURE:  DATE: 8/12/2025

TELEPHONE NO: 410-688-4438 FACSIMILE NO: 410-779-3558

EMAIL: ekneis@synagro.com

SCHEDULE OF BID PRICES – BID NO. 2025-011

TO: CITY COMMISSION

CITY OF MARGATE

(Please fill in all blanks and return with your proposal.)

In accordance with your request for proposals and the specifications contained herein, the undersigned proposes the following:

BIDDER AGREES TO PERFORM ALL THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS FOR THE FOLLOWING UNIT PRICES OR LUMP SUMS. BIDS SHALL INCLUDE SALES TAX AND ALL OTHER APPLICABLE TAXES AND BIDDER UNDERSTANDS THAT THE EXTENDED TOTAL FOR EACH AND EVERY ITEM IS THE RESULT OF MULTIPLYING THE QUANTITY TIMES THE UNIT COST STATED IN FIGURES. ANY DISCREPANCY BETWEEN THE UNIT AND TOTAL, THE UNIT PREVAILS.

BID FORM

Bid Item	Unit Price	Unit
Option 1: Regular Rates (Monday – Friday)		
Option 1: Lime Sludge Hauling, and Disposal Only Per Cubic Yard Price (Regular Rate)	\$ <u>185.00</u>	Per Cubic Yard
Option 1: Lime Sludge Hauling and Disposal Only Per-Load Price (20 cubic yards – Regular Rate)	\$ <u>3,700.00</u>	Per Load (20 cubic yards)
 Option 2: Emergency Rates (Weekends,Holidays)		
Option 2: Lime Sludge Hauling and Disposal Only Per Cubic Yard Price (Emergency Rate)	\$ <u>204.00</u>	Per Cubic Yard
Option 2: Lime Sludge Hauling and Disposal Only Per-Load Price (20 cubic yards – Emergency Rate)	\$ <u>4,080.00</u>	Per Load (20 cubic yards)

ALL BIDS MUST BE SIGNED WITH THE VENDOR NAME AND BY AN OFFICER OR EMPLOYEE HAVING THE AUTHORITY TO BIND THE COMPANY OR FIRM BY SIGNATURE.

SAFETY DATA SHEETS ENCLOSED? YES ✓ NO

SPECIFICATION SHEETS/BROCHURES? YES NO ✓

HAVE YOUR INSURANCE REPRESENTATIVE REVIEW THE SAMPLE INSURANCE CERTIFICATE TO ENSURE COMPLIANCE.

WILL YOUR FIRM ACCEPT PAYMENT VIA A CITY OF MARGATE VISA CREDIT CARD? PLEASE CHECK ONE YES NO ✓

BIDDER'S GENERAL INFORMATION:

The bidder shall furnish the following information. Additional sheets shall be attached as required. Failure to complete Item Nos. 1, 3, and 7 (if required) will cause the bid to be non-responsive and may cause its rejection. In any event, no award will be made until all of the Bidder's General Information (i.e., items 1 through 7 inclusive) is delivered to the City.

- (1) CONTRACTOR'S name and address:

Synagro South, LLC

435 Williams Court, Suite 100, Baltimore, MD 21220

- (2) CONTRACTOR'S telephone number: 410-688-4438

- (3) CONTRACTOR'S license: Primary classification: n/a

State License Number: _____

Supplemental classifications held, if any: _____

Name of Licensee, if different from (1) above: _____

- (4) Name of person who inspected site of proposed Work for your firm:

Name: Curt DeBrunner Date of Inspection: 8/4/2023

- (5) Name, address, and telephone number of Surety Company and agent who will provide the required bonds on this contract (if required): _____

Ascot Surety & Casualty Company

Agent- AON- Vilma Gonzalez 212-441-1160

- (6) ATTACH TO THIS BID the experience resume of the person who will be designated as Supervisor for this project.

Attached- Barry Jarman

- (7) ATTACH TO THIS BID, a financial statement (**If Required**), references, and other information, sufficiently comprehensive to permit an appraisal of CONTRACTOR'S current financial condition.

- (8) Subcontractors: The Bidder further proposes that as part of their submittal there is attached a list of subcontracting firms or businesses who will be awarded subcontracts for portions of the work in the event the bidder is awarded the Contract.

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we SYNAGRO SOUTH, LLC as Principal, and ASCOT SURETY & CASUALTY COMPANY as Surety, are held and firmly bound unto City of Margate, hereinafter called "City" in the sum of (\$) Five Percent of Amount Bid (5% of Amount Bid) dollars, **(based on a yearly average of 10,400 cubic yards, see Special Conditions)** for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a bid to said City to perform the Work required under the bidding schedule of the City's Contract Documents entitled:

BID 2025-011 LIME SLUDGE HAULING AND DISPOSAL

NOW THEREFORE, if said Principal is awarded a contract by said City and, within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders" enters into a written Agreement on the form of the agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said City and City prevails, said Surety shall pay all costs incurred by said City in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED and SEALED, this 11th day of August, 2025

SYNAGRO SOUTH, LLC

(CONTRACTOR)

By: *E. A. Knut*

(SIGNATURE)

ASCOT SURETY & CASUALTY COMPANY

(SURETY)

By: *Anne Potter*

(SIGNATURE)

Anne Potter,
Attorney-In-Fact

~~STATE OF FLORIDA, COUNTY OF BROWARD:~~

~~Kentucky~~

~~Jefferson~~

BEFORE ME PERSONALLY APPEARED THE ABOVE, KNOWN TO ME TO BE THE PERSONS DESCRIBED IN AND WHO EXECUTED THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO AND BEFORE ME BY MEANS OF PHYSICAL PRESENCE OR ONLINE NOTARIZATION THAT THEY EXECUTED SAID INSTRUMENT FOR THE PURPOSES THEREIN EXPRESSED.

WITNESS MY HAND AND OFFICIAL SEAL, THIS 11th DAY OF August, 2025

NOTARY PUBLIC: *V. Gonzalez*

Vilma Gonzalez

VILMA GONZALEZ
Commonwealth of Kentucky
Notary Public - Comm. # KYNP87102
My Commission Expires 03-28-2028



Power of Attorney

KNOW ALL MEN BY THE PRESENTS:

That **Ascot Surety & Casualty Company** and **Ascot Insurance Company**, each a corporation organized and existing under the laws of the State of Colorado (the "Companies"), do hereby constitute and appoint:

Aklima Noorhassan, Anne Potter, Debra A. Deming, Frances Rodriguez, Francesca Kazmierczak, Sandra Diaz, Beverly A. Woolford, Valorie Spates, and Vilma Gonzalez

of New York, NY (city, state) and each its true and lawful Attorney(s)-in-Fact, with full authority to sign, execute, seal, acknowledge and deliver for, and on its behalf, and as its act and deed any place within the United States, or, if the following line is filled in, only within the area and up to the amount therein designated, any and all bonds, undertakings, recognizances, and other contracts of indemnity or writings obligatory in the nature thereof, issued in the course of its surety business, and to bond the Companies as follows:

Any such obligations in the United States not to exceed \$100,000,000.00.

The Companies hereby ratify and confirm all and whatsoever said Attorney(s)-in-fact may lawfully do in the premises by virtue of these presents. These appointments are made under and by authority Resolutions adopted by the Board of Directors of the Companies, which resolutions are still in effect:

RESOLVED, that any of the Chief Executive Officer, the Chief Operating Officer or the Chief Underwriting Officer, acting in conjunction with the head of the surety business line for the Corporation (each an Authorized Individual" and, collectively, the Authorized Individuals"), are authorized to jointly appoint one or more attorneys-in-fact to represent and act for and on behalf of the Corporation in the transaction of the Corporation's surety business to execute (under the common seal of the Corporation if appropriate) bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof;

RESOLVED, that in conjunction with the Corporation's transaction of surety business the signatures and attestations of the Authorized Individuals and the seal of the Corporation be affixed to any such Power of Attorney or to any certificate relating thereto (electronic or otherwise) by facsimile and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seals (electronic or otherwise) shall be valid and bonding upon the Corporation when so affixed with respect to any bond, undertaking, recognizance or tother contract of indemnity or writing obligatory in the nature thereof;

RESOLVED, that in connection with the Corporation's transaction of surety business, the facsimile electronic or mechanically reproduced signature of any Authorized Individual, whether made heretofore or hereafter, whenever appearing upon a copy of any Power of Attorney of the Corporation, with signatures affixed as next above noted, shall be valid and binding upon the Corporation with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, the Companies have caused these presents with the respective corporate seals and to be executed by the individuals named below who are duly authorized and empowered to execute the Power of Attorney on the Companies' behalf, this 13th day of March 2025.



ASCOT SURETY & CASUALTY COMPANY
ASCOT INSURANCE COMPANY

Matthew Conrad Kramer (Chief Executive Officer)

Tara North (Executive Vice President, Surety)

STATE OF CONNECTICUT)
COUNTY OF FAIRFIELD) ss.

On this 13th day of March 2025, before me came the above named Chief Executive Officer of each Ascot Surety & Casualty Company and Ascot Insurance Company and the head of the surety business line for each of Ascot Surety & Casualty Company and Ascot Insurance Company, to me personally known to be the individuals described herein, and acknowledged that the seals affixed to the preceding instrument and the corporate seals of each Ascot Surety & Casualty Company and Ascot Insurance Company, and that the said corporate seals and signatures were duly affixed and subscribed to said instrument by the authority and direction of said Companies.

KSENIA E. GUSEVA
NOTARY PUBLIC
STATE OF CONNECTICUT
My Commission Expires June 30, 2029

Notary Public Ksenia E Guseva
My commission expires on June 30, 2029

I, the undersigned Secretary of the Company, do hereby certify that the foregoing excerpts of the Resolution adopted by the Board of Directors of the Companies, and the Power of Attorney issued pursuant thereto, are true and correct, and further certify that both the Resolution and the Power of Attorney are still in full force and effect.

This Certificate may be signed by facsimile under and by the authority of the following resolution of the Board of Directors of the Companies.

RESOLVED, that in connection with the Corporation's transaction of surety business the signatures and attestations of the Authorized Individuals and the seal of the Corporation be affixed to any such Power of Attorney or to any certificate relating thereto (electronic or otherwise) by facsimile and any such Power of Attorney of certificate bearing such facsimile signatures or facsimile seal (electronic or otherwise) shall be valid and binding upon the Corporation when so affixed with respect to any bond, undertaking, recognizances or other contract of indemnity or writing obligatory in the nature thereof;

IN WITNESS WHEREOF; I have hereunto set my hand and affixed the seal of the Companies, this 11th day of August, 2025.

ASCOT SURETY & CASUALTY COMPANY
ASCOT INSURANCE COMPANY

John Gill, Secretary

REFERENCE SHEET BID NO. 2025-011

In order to receive Bid Award consideration on the proposed bid, it is a requirement that this sheet be completed and returned with your bid/proposal. This information may be used in determining the bid award for this Project.

BIDDER (COMPANY NAME): Synagro South, LLC

ADDRESS: 435 Williams Court, Suite 100, Baltimore, MD 21220

CONTACT PERSON: Curt DeBrunner TITLE: Area Sales Manager

TELEPHONE: 813-495-1060 FACSIMILE: 410-779-3558

NUMBER OF YEARS IN BUSINESS: 25

ADDRESS OF NEAREST FACILITY: WM Okeechobee Landfill, 10800 NE 128th Ave, Okeechobee, FL

LIST THREE (3) COMPANIES OR GOVERNMENTAL AGENCIES WHERE THESE PRODUCTS OR SERVICES HAVE BEEN PROVIDED IN THE LAST YEAR.

1. COMPANY NAME: Palm Beach County

ADDRESS: 2055 W. Canal St. Belle Glade FL 33430 PHONE: 561-493-6287

CONTACT PERSON: Jose Pozo TITLE: Chief WWTP Operator

2. COMPANY NAME: City of Cooper City

ADDRESS: 11791 SW 49th St. Cooper City FL 33330 PHONE: 954-675-8865

CONTACT PERSON: Ryan Webster TITLE: Manager

3. COMPANY NAME: St. Lucie County

ADDRESS: 450 SW Utility Dr. Port St Lucie FL 34986 PHONE: 772-979-5723

CONTACT PERSON: Mano Sewel TITLE: Operation Mgr.

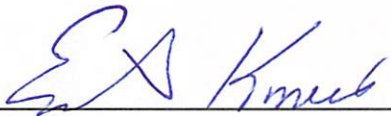
COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.)
BID NO. 2025-011

Bidder certifies that all material, equipment, etc. contained in this bid meet all O.S.H.A. requirements. Bidder further certifies that if he/she is the successful bidder, and the material, equipment, etc., delivered is subsequently found to be deficient in any O.S.H.A. requirement in effect on date of delivery, all costs necessary to bring the material, equipment, etc. into compliance with the aforementioned requirements shall be borne by the bidder.

OCCUPATIONAL HEALTH AND SAFETY DATA SHEET REQUIRED:

In compliance with Chapter 442, Florida Statutes, any item delivered from a contract resulting from this bid must be accompanied by a SAFETY DATA SHEET (SDS). The SDS must include the following information:

- A. The chemical name and the common name of the toxic substance.
- B. The hazards or other risks in the use of the toxic substances, including:
 - 1. The potential for fire, explosion, corrosivity and reactivity;
 - 2. The known acute and chronic health effects of risks from exposure, including the medical conditions which are generally recognized as being aggravated by exposure to the toxic substance; and
 - 3. The primary routes of entry and symptoms of overexposure.
- C. The proper precautions, handling practices, necessary personal protective equipment, and other safety precautions in the use of or exposure to the toxic substances, including appropriate emergency treatment in case of overexposure.
- D. The emergency procedure for spills, fire, disposal, and first aid.
- E. A description in lay terms of the known specific potential health risks posed by the toxic substances intended to alert any person reading this information.
- F. The year and month, if available, that the information was compiled and the name, address and emergency telephone number of the manufacturer responsible for preparing the information.

SIGNATURE:  DATE: 8/12/2025

**CITY OF MARGATE
STATEMENT OF NO BID**

IF YOU DO NOT INTEND TO BID ON THIS PROPOSAL, RETURN THIS FORM TO ADDRESS WHERE BID IS TO BE SUBMITTED:

I/We have declined to bid on your proposal No: 2025-011

Lime Sludge Hauling and Disposal

For the following reason:

- ☐ 1. Specifications are too tight, i.e. geared toward one brand or manufacturer only (Explain reason below)
- ☐ 2. Insufficient time to respond to invitation.
- ☐ 3. We do not offer this commodity/service or equivalent.
- ☐ 4. Our product/service schedule would not permit us to perform.
- ☐ 5. Unable to meet specifications.
- ☐ 6. Unable to meet bonding requirements.
- ☐ 7. Specifications unclear (Explain below).
- ☐ 8. Other (Specify below).

REMARKS: _____

Attach additional pages if required.

I/We understand that if the NO BID form is not executed and returned, our name may be deleted from the list of qualified bidders for the City of Margate.

COMPANY NAME: _____

ADDRESS: _____

TELEPHONE NO: _____ DATE: _____

SIGNATURE OF BIDDER: _____

DRUG-FREE WORKPLACE PROGRAM FORM BID NO. 2025-011

In accordance with Section 287.087, State of Florida Statutes, preference shall be given to businesses with Drug-free Workplace Programs. Whenever two or more bids which are equal with respect to price, quality, and service are received for the procurement of commodities or contractual service, a bid received from a business that certifies that it has implemented a Drug-free Workplace Program shall be given preference in the award process. In the event that none of the tied vendors has a Drug-free Workplace program in effect, the City reserves the right to make final Decisions in the City's best interest. In order to have a Drug-free Workplace Program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893, Florida Statutes, or of any controlled substance law of the United States of any State, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by any employee who is convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation. If bidder's company has a Drug-free Workplace Program, so certify below:

AS THE PERSON AUTHORIZED TO SIGN THE STATEMENT, I CERTIFY THAT THIS FIRM COMPLIES FULLY WITH THE ABOVE REQUIREMENTS.

SIGNATURE OF BIDDER:



DATE: 8/12/2025

OFFEROR'S QUALIFICATION STATEMENT BID NO. 2025-011

The undersigned certifies under oath the truth and correctness of all statements and of all answers to questions made hereinafter:

SUBMITTED TO: City of Margate
(Purchasing Division)

ADDRESS: 5790 Margate Blvd.
Margate, FL 33063

CIRCLE ONE: ☒ LLC ☐ Corporation ☐ Partnership ☐ Individual ☐ Other

SUBMITTED BY: Synagro South, LLC

NAME: Emil Kneis

ADDRESS: 435 Williams Court, Suite 100, Baltimore, MD 21220

TELEPHONE NO.: 410-688-4438

FACSIMILE NO.: 410-779-3558

1. State the true, exact, correct and complete name of the partnership, corporation, trade or fictitious name under which you do business and the address of the place of business. (Attach corporate documents from the State of Florida (sunbiz.org) to this statement.)

The correct name of the Offeror is: Synagro South, LLC

The address of the principal place of business is:

435 Williams Court, Suite 100,

Baltimore, MD 21220

2. If Offeror is a corporation, answer the following:

a. Date of Incorporation: Organized 6/23/1999

b. State of Incorporation: Delaware

c. President's name: Kaivan Desai

d. Vice President's name: n/a

e. Secretary's name: Alan Slepian

f. Treasurer's name: Kaivan Desai

g. Name and address of Resident Agent: _____
CT Corporation
1200 South Pine Island Road
Plantation, FL 33324

3. If Offeror is an individual or a partnership, answer the following:

a. Date of organization: _____

b. Name, address and ownership units of all partners:

c. State whether general or limited partnership: _____

4. If Offeror is other than an individual, corporation or partnership, describe the organization and give the name and address of principals:

5. If Offeror is operating under a fictitious name, submit evidence of compliance with the Florida Fictitious Name Statute.

6. How many years has your organization been in business under its present business name?

25

a. Under what other former names has your organization operated?

Synagro South, Inc.

7. Indicate registration, license numbers or certificate numbers for the businesses or professions which are the subject of this Proposal. Please attach certificate of competency and/or state registration.

See Attached

8. Have you ever failed to complete any work awarded to you? If so, state when, where and why?

No

9. State the names, telephone numbers and last known addresses of three (3) owners, individuals or representatives of owners with the most knowledge of work which you have performed or goods you have provided, and to which you refer (government owners are preferred as references).

Mano Sewel	450 SW Utility DR St. Lucie, FL34986	772-979-5723
(Name)	(Address)	(Phone Number)

Jose Pozo	2055 W. Canal St Belle Glade FL 33430	561-493-6287
(Name)	(Address)	(Phone Number)

Ryan Webster	11791 SW 49th St. Cooper City FL 33330	954-675-8865
(Name)	(Address)	(Phone Number)

10. List the pertinent experience of the key individuals of your organization (continue on insert sheet, if necessary).

Tod Tucker/Area Director of Operations

Lee Vernon/ Regional VP

Barry Jarman/ Project Manager

Curt DeBrunner /Area Sales Manager

"Please see the Bios and resumes of the above individuals"

11. State the name(s) of the individual(s) who will have personal supervision of the work:

Barry Jarman,

Tod Tucker

THE OFFEROR ACKNOWLEDGES AND UNDERSTANDS THAT THE INFORMATION CONTAINED IN RESPONSE TO THIS QUALIFICATION STATEMENT SHALL BE RELIED UPON BY OWNER IN AWARDING THE CONTRACT AND SUCH INFORMATION IS WARRANTED BY OFFEROR TO BE TRUE. THE DISCOVERY OF ANY OMISSION OR MISSTATEMENT THAT MATERIALLY AFFECTS THE OFFEROR'S QUALIFICATIONS TO PERFORM UNDER THE CONTRACT SHALL CAUSE THE OWNER TO REJECT THE PROPOSAL, AND IF AFTER THE AWARD TO CANCEL AND TERMINATE THE AWARD AND/OR CONTRACT.

Signature: EA Kmer

State of ~~Florida~~ Maryland
County of Baltimore

On this the 12 day of Aug., 2025, before me by means of ☒ physical presence or ☐ online notarization, the undersigned Notary Public of the State of Florida, personally appeared Emil Kneis and
(Name(s) of individual(s) who appeared before notary)

whose name(s) is/are Subscribed to the within instrument, and he/she/they acknowledge that he/she/they executed it.

NOTARY PUBLIC
SEAL OF OFFICE:

CONSTANCE A. REYNOLDS
NOTARY PUBLIC
ANNE ARUNDEL COUNTY
MARYLAND
My Commission Expires 09-06-2027

Constance A. Reynolds
NOTARY PUBLIC, STATE OF ~~FLORIDA~~ Maryland

Constance A. Reynolds

(Name of Notary Public: Print,
Stamp or Type as Commissioned.)

☒ Personally known to me, or
☐ Produced identification:

(Type of Identification Produced)
☒ DID take an oath, or ☐ DID NOT take an oath

NON-COLLUSIVE AFFIDAVIT FOR BID 2025-011

State of Maryland)

County of Baltimore)

Emil Kneis being first duly sworn, deposes
and says that:

He/she is the Sales Support Manager, (Owner, Partner, Officer,
Representative or Agent) of Synagro South, LLC, the Offeror that
has submitted the attached Proposal;

He/she is fully informed regarding the preparation and contents of the attached
Proposal and of all pertinent circumstances regarding such Proposal;

Such Proposal is genuine and is not a collusive or sham Proposal;

Neither the said Offeror nor any of its officers, partners, owners, agents,
representatives, employees or parties in interest, including this affiant, have in any way
colluded, conspired, connived or agreed, directly or indirectly, with any other Offeror,
firm, or person to submit a collusive or sham Proposal in connection with the Work for
which the attached Proposal has been submitted; or to refrain from bidding in
connection with such Work; or have in any manner, directly or indirectly, sought by
agreement or collusion, or communication, or conference with any Offeror, firm, or person
to fix the price or prices in the attached Proposal or of any other Offeror, or to fix any
overhead, profit, or cost elements of the Proposal price or the Proposal price of any other
Offeror, or to secure through any collusion, conspiracy, connivance, or unlawful
agreement any advantage against (Recipient), or any person interested in the proposed
Work;

The price or prices quoted in the attached Proposal are fair and proper and are not tainted
by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Offeror
or any other of its agents, representatives, owners, employees or parties in interest,
including this affiant.

Signed, sealed, and delivered in the presence of:

[Signature]
Witness

Constance Reynolds.
Witness

By [Signature]

Emil Kneis

Printed Name

Sales Support Manager

Title

ACKNOWLEDGMENT
NON-COLLUSIVE AFFIDAVIT FOR BID 2025-011

State of ~~Florida~~ Maryland
County of Baltimore

On this the 12th day of Aug, 2025, before me by means of ☒ physical presence
or ☐ online notarization, the undersigned Notary Public of the State of Florida, personally
appeared

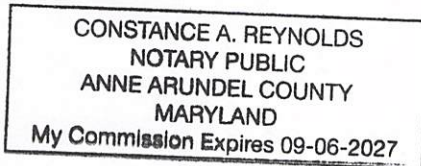
Emil Kneis

(Name(s) of individual(s) who appeared before notary)

whose name(s) is/are Subscribed to within the instrument, and he/she/they acknowledge that
he/she/they executed it.

WITNESS my hand
and official seal.

NOTARY PUBLIC
SEAL OF OFFICE:



Constance A. Reynolds
NOTARY PUBLIC, STATE OF ~~FLORIDA~~ Maryland
Constance A. Reynolds

(Name of Notary Public: Print,
Stamp, or Type as Commissioned)

☒ Personally known to me, or
☐ Produced identification

(Type of Identification Produced)

☒ DID take an oath, or ☐ DID NOT take an oath

SCRUTINIZED COMPANIES CERTIFICATION

I hereby swear or affirm that as of the date below this company is not listed on a Scrutinized Companies list created pursuant to 215.4725, 215.473, or 287.135, Florida Statutes. Pursuant to 287.135, Florida Statutes I further affirm that:

1. This company is not participating in a boycott of Israel such that it is not refusing to deal, terminating business activities, or taking other actions to limit commercial relations with Israel, or persons or entities doing business in Israel or in Israeli-controlled territories, in a discriminatory manner.
2. This Company does not appear on the Scrutinized Companies with Activities in Sudan List where the State Board of Administration has established the following criteria:
 - a. Have a material business relationship with the government of Sudan or a government- created project involving oil related, mineral extraction, or power generation activities, or
 - b. Have a material business relationship involving the supply of military equipment, or
 - c. Impart minimal benefit to disadvantaged citizens that are typically located in the geographic periphery of Sudan, or
 - d. Have been complicit in the genocidal campaign in Darfur.
3. This Company does not appear on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List where the State Board of Administration has established the following criteria:
 - a. Have a material business relationship with the government of Iran or a government- created project involving oil related or mineral extraction activities, or
 - b. Have made material investments with the effect of significantly enhancing Iran's petroleum sector.
4. This Company is not engaged in business operations in Cuba or Syria.

VENDOR/COMPANY NAME: Synagro South, LLC

SIGNATURE: 

PRINTED NAME: Emil Kneis

TITLE: Sales Support Manager DATE: 8/12/2025

The scrutinized company list is maintained by the State Board of Administration and available at <http://www.sbafla.com/>

CITY OF MARGATE E-VERIFY FORM

Project Name:	Lime Sludge Hauling & Disposal
Project No.:	2025-011

ACKNOWLEDGEMENT

Definitions:

"Contractor" means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration.

"Subcontractor" means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

Effective January 1, 2021, public and private employers, contractors and subcontractors will begin required registration with, and use of the E-verify system in order to verify the work authorization status of all newly hired employees. Vendor/Consultant/Contractor acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

- All persons employed by Vendor/Consultant/Contractor to perform employment duties within Florida during the term of the contract; and
- All persons (including subvendors/subconsultants/subcontractors) assigned by Vendor/Consultant/Contractor to perform work pursuant to the contract with the Department. The Vendor/Consultant/Contractor acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with the City of Margate; and
- Should vendor become successful Contractor awarded for the above-named project, by entering into this Contract, the Contractor becomes obligated to comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility," as amended from time to time. This includes but is not limited to utilization of the E-Verify System to verify the work authorization status of all newly hired employees, and requiring all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The contractor shall maintain a copy of such affidavit for the duration of the contract. Failure to comply will lead to termination of this Contract, or if a subcontractor knowingly violates the statute, the subcontract must be terminated immediately. Any challenge to termination under this provision must be filed in the Circuit Court no later than 20 calendar days after the date of termination. If this contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of 1 year after the date of termination and shall be liable for any additional costs incurred by the City as a result of the termination.

COMPANY CONTACT INFORMATION

Company Name: Synagro South, LLC
Authorized Signature: 
Print Name: Emil Kneis
Title Sales Support Manager
Date: 8/12/2025
Phone: 410-688-4438
Email: ekneis@synagro.com
Website: www.synagro.com

Affidavit Attesting to Noncoercive Conduct for Labor or Services

Nongovernment Entity name: Synagro South, LLC ("Vendor")

Vendor

FEIN: 76-0612567

Address: 435 Williams Court Suite 100

City: Baltimore, State: MD Zip: 21220

Phone number: 410-688-4438 Email Address: ekneis@synagro.com

As a nongovernmental entity executing, renewing, or extending a contract with a government entity, **Vendor** is required to provide an affidavit under penalty of perjury attesting that **Vendor** does not use coercion for labor or services in accordance with Section 787.06, Florida Statutes.

As defined in Section 787.06(2)(a), coercion means:

1. Using or threatening to use physical force against any person;
2. Restraining, isolating, or confining or threatening to restrain, isolate, or confine any person without lawful authority and against her or his will;
3. Using lending or other credit methods to establish a debt by any person when labor or services are pledged as a security for the debt, if the value of the labor or services as reasonably assessed is not applied toward the liquidation of the debt, the length and nature of the labor or service are not respectively limited and defined;
4. Destroying, concealing, removing, confiscating, withholding, or possessing any actual or purported passport, visa, or other immigration document, or any other actual or purported government identification document, of any person;
5. Causing or threatening to cause financial harm to any person;
6. Enticing or luring any person by fraud or deceit; or
7. Providing a controlled substance as outlined in Schedule I or Schedule II of Section 893.03 to any person for the purpose of exploitation of that person.

As a person authorized to sign on behalf of **Vendor**, I certify that **Vendor** does not use coercion for labor or services in accordance with Section 787.06.

Written Declaration

Under penalties of perjury, I declare that I have read the foregoing Affidavit and that the facts stated in it are true.

By:



Authorized Signature

Print Name and Title: Emil Kneis/ Sales Support Manager

Date: 8/12/2025



Tod Tucker

Area Director

Synagro Technologies, Inc.

Area Director, June 2022 - Present

As Area Director for Synagro's Florida biosolids management projects, Tod manages over 40 projects and a staff of 16 supervisors and operators. He is responsible for:

- Start-up and successful project completion, annual \$20MM budget management, as well as overseeing capital improvements and investments and customer relations.
- Operations and compliance with local, state and federal regulations related to biosolids land application.
- Coordination of equipment rental as needed and assists operations managers with subcontractor management and equipment issues.
- Budgeting and job cost development for new projects.

Tod is experienced operating belt filter presses, rubber tire loaders, farm tractors and farm equipment, pumps, grinders, jockey trucks and trailers, end dump trailers, vacuum pumps, liquid spreading equipment, and other required project equipment for Synagro's operations.

American Materials Company

Operations Manager, December 2017- May 2022

Plant Manager, Buckhorn Quarry, January 2017 – December 2017

- Help implemented AMC safety program and Summit's 5s initiative.
- Managed nine sand mine operations and one future marine limestone greenfield site.
- Lead an annual budget of \$10 million and oversee necessary capital improvements.
- Successfully integrated two sand mine acquisitions in the Charleston and Columbia markets.
- Coordinated the conversion of two dry mine sites to dredge operations and installed new dredge at recently acquired brownfield site

EDUCATION

**Shepherd University –
Political Science**



- Heavily involved in mine and plant design for future marine limestone operation.
- Oversaw plant operations for a 1 million plus ton granite quarry, promoting a safe workplace, leading an annual budget of \$7 million.

Martin Marietta

District Production Manager, NC East District, December 2013 – September 2016

- Managed operations for seven granite quarries, one marine limestone quarry, and a shipyard facility.
- Led an annual operations budget of \$40+ million and spearheaded capital improvements of \$5 million annually. Consistently maximized resources, improved efficiencies, and improved profitability.
- Developed a mobile equipment program to improve equipment availability and extend asset life, coordinating a new program that improved the mobile fleet availability to over 90%.
- Successfully received approval to relocate 2000 linear feet of stream and mitigate 20 acres of wetland to gain 40 million tons of reserves.
- Worked with City Council and neighboring communities to receive approval for rezoning 100 acres, relocate city thorough fare to gain an additional 25 million tons of reserves.

Plant Manager, Raleigh-Durham Quarry, April 2005 – December 2013

- Coordinated operations for a 1 million ton-per-year facility and managed an additional 400,000 ton-per-year facility. Oversaw necessary capital improvements and led an annual budget of over \$8 million.

Plant Manager, Anderson Creek Quarry, March 2003 – April 2005

- Oversaw plant operations and managed an 800,000 ton-per-year granite quarry, promoting a safe workplace, leading an annual budget of \$4 million, overseeing capital improvements.
- Continually analyzed and evaluated processes and procedures, improving profitability year-over-year.

Tod Tucker, Area Director

As Area Director for Synagro's Florida biosolids management projects, Tod Tucker manages over 40 projects and a staff of 16 supervisors and operators. He is responsible for start-up and successful project completion, as well as overseeing capital improvements/investments, and customer relations. Project operations under Tod's oversight includes compliance with local, state, and federal regulations related to biosolids land application and other disposal services; coordination of equipment rental and subcontractor management as needed; and budgeting and job cost development for new projects.

Prior to joining Synagro in 2022 Tod worked in various management roles for American Materials Company where he was responsible for management of sand mine operations and future marine limestone greenfield site. Tod also has quarry management experience during his ten years with Martin Marietta.



Barry Jarman

Operations Manager

Synagro Technologies, Inc.

Operations Manager, 2019-Present

As Operations Manager for Synagro's Florida biosolids management projects, Barry is responsible for:

- Managing mechanical data and making operational changes as needed.
- Managing and tracking project monthly financials.
- Implementing and maintaining maintenance of company policies and procedures.
- Fostering a culture that promotes a safe work environment through the development and implementation of safety plans and training; maintain environmental and regulatory compliance standards.
- Ensuring appropriate personnel and equipment resources are available for efficient project performance.
- Planning, scheduling, and executing outages/repairs on equipment and systems while not interrupting production.
- Interpreting mechanical data and make operational changes as needed.

Adams Homes / Raney Construction

Construction Superintendent, 2018 - 2019

- Scheduled subcontractors, consultants, and vendors in a critical path to ensure timely completion.
- Performed quality control duties and responsibilities regarding the work being performed.
- Ensured subcontractors were fully executing and complying with their contracted scope of work.
- Coordinated required inspections with local jurisdictions.
- Issued notices of non-compliance to subcontractors, in regards to quality of work or scheduling.
- Walked all units on the project daily to monitor activities and assist in future planning.

EDUCATION

Bachelor of Arts, Social Work, University of West Florida, 2003

Associate of Arts, Pensacola Junior College, 1998

- Confined Space Certification
- Hydraulic Torque Machine certification
- Transformers: 120V to 35KV
- Multi-Meter: voltmeter, amp meter, megohmmeter and wattmeter
- Electrical schematics, blueprints and point-to-point drawings
- SAP and Maximo Training
- OSHA 10 Certified
- NFPA 70e Certified



Axis Renewables / ISP

Resource/Project Manager, 2016 - 2018

- Monitored day to day project activities and resourcing, identify potential instances of underutilization and actively work with department leads to address and resolve those issues.
- Monitored staffing and resources against assigned projects in order to meet deadlines and budgets.
- Drive projects to final stages of completion by keeping the team on track to complete assignments under budget. Managed job data and timesheets, using Excel and other programs, for client approval.
- Lead daily safety discussions, equipment inspections and daily stretching. Reviewed and approved all daily EHS required paperwork at the job sites.

British Petroleum

Facility Manager - Commissioning/ Construction Supervisor, 2012 - 2016

- Responsible for daily operations of the largest Wind Farm in Pennsylvania and the largest single-phase Wind Farm on the East Coast.
- Team Safety Lead, creating a morning stretch program that was the benchmark across all BP Wind Farms, proven to reduce workplace injuries. Maintained all Safety documentation.
- Performed maintenance tasks at a Substation that fed an 115kv line to the grid.
- Utilized a computer-based maintenance system (SCADA) to identify trends, take corrective action and to maintain turbine performance.
- Oversaw Construction and Commissioning for GE 1.6 turbine platform from start to completion, supervising contractors and assigning daily tasks and performing QA/QC walkdowns.

Gamesa

Site Manager - Site Commissioning/ Construction Supervisor, 2008 - 2012

- Responsible for all day-to-day operations, maintenance, financials, SAP, fiscal and administrative functions for the site.
- Performed the first Generator swap without a crane in the U.S. on a Gamesa Turbine.
- Supervised construction/commissioning contractors, of Gamesa Turbines, at Locust Ridge/Sandy Ridge Wind Farms, and was site manager of Locust Ridge, closing out the warranty after the contract was completed. Also closed out the warranty phase of Bear Creek as well.
- Managed Wind Farm used as testing site for new turbine software upgrades, providing technicians and technical support to the Engineering department.
- Utilized a computer-based maintenance system (SCADA) to identify trends, take corrective action and to maintain turbine performance.
- Organized the daily schedules for all subcontractors, as well as the on-call schedules.



General Electric

Manufacturing Leader, 2001 - 2008

- Performed final inspections on wind turbine machine heads to ensure zero defects before delivering product to the customer. Created manufacturing instructions to maintain quality & uniformity throughout the machine head build process.
- Tester for the GE 1.5-megawatt Wind Turbines on completed Machine Heads using various electrical testing tools, schematics, prints and point-to-point drawings to ensure delivery of a zero-defect product to the customer.
- Member of the GE Winding Team for GE 324 Generators that completed a unit in fewer than 2000 labor-hours with no overtime, which had never been accomplished in the history building GE generators.
- Utilized 5W's and Fishbone Diagrams to identify root cause analysis for rework and overdue projects, so that a target solution can be implemented.
- Incorporated Six Sigma, Lean Manufacturing and Kaizen fundamentals for continuous improvement on the production line.

Barry Jarman, Operations Manager

Barry Jarman joined Synagro in 2019 as Operations Manager for Synagro's Florida biosolids management projects. In this role he is responsible for the day-to-day management of various projects including management of dewatering operations mechanical data any needed operational changes, tracking monthly project financials, implementation and maintenance of company policies and procedures, promoting a safe work environment through the development and implementation of safety plans and training, and maintaining environmental and regulatory compliance standards.

Before coming to Synagro Barry held various construction and project management roles spanning an 18 year career with such companies as Axis Renewables/ISP, British Petroleum, and General Electric. In 2003 he was nominated by his peers to lead the transfer of technology training for Wind Turbine assembly at the GE Energy Pensacola factory. Barry also served as a member of the United States Army in Operation Restore Hope stationed in Somalia as an Electronic Maintenance Shop Supervisor, providing communication repair in a combat environment.

Barry holds a Bachelor of Arts degree in Social Work from the University of West Florida. He is certified in Confined Space Entry and OSHA 10 certified.



Lee Vernon

Regional Vice President

Synagro Technologies, Inc.

Regional Vice President, Southeast Region, 2022 - Present

Leadership for all residuals and biosolids management operations, sales, and technical services strategies throughout Florida, Georgia, Tennessee, Alabama, Mississippi, Louisiana and Arkansas. Project performance and customer satisfaction are the primary focus of leadership throughout the region.

Area Director, West Coast, 2020 - 2022

Responsible for all service operations in California, Oregon, Washington, and Nevada, including transport and disposal, land application, municipal WWTP cleaning, dewatering, and dredging, and industrial dewatering and dredging projects.

Senior Operations Manager, Philadelphia Renewable Bio-fuels Facility, 2019 – 2020

Managed day-to-day operations of Synagro Philadelphia, one of the country's largest biosolids dewatering and drying facilities with eight dewatering centrifuges and two Andritz DDS-120 dryers that process approximately 65,000 dry tons/year.

Solmax (formerly GSE Environmental)

Operations Manager, 2018 – 2019

Responsible for 65+ person team within Production, Maintenance, and Compounding departments in plastics blown film extrusion plant with 10 production lines. Managed day-to-day plant operations.

Maintenance Manager, 2018 – 2018

Managed the Factory Maintenance and Engineering Team and oversaw corrective and preventative maintenance. Implemented Preventative Maintenance and Reliability Program and the Total Productive Maintenance Program.

EDUCATION

UNIVERSITY OF VIRGINIA

Bachelor of Science
Mechanical Engineering

UNIVERSITY OF NORTH CAROLINA

Master of Business
Administration

CERTIFICATIONS

- Lean Six Sigma, Green Belt
- Mechanical E.I.T.



GSE Environmental

Production Manager, 2017 –2018

Responsible for safe, quality production of all GSE Houston geomembrane, drainage, and lab lines.

Process Engineer / Sr. Process Engineer, 2015 – 2017

Analyzed and sought to improve all processes related to blown film extrusion.

Lee Vernon, Regional Vice President

As Regional Vice President, Lee Vernon leads Synagro's strategy and execution to achieve successful outcomes in financial, operational and personnel performance, while exceeding customer expectations, in sustaining and growing Synagro's Southeast Region business unit. Prior to managing the Southeast Region, Lee serviced as Area Director for Synagro's West Region biosolids and residuals management programs. These programs included transportation and disposal, land application, municipal WWTP cleaning, dewatering, dredging, and industrial dewatering and dredging projects.

Lee joined Synagro in 2019 as a senior Operations Manager for the company's Philadelphia Renewable Bio-fuels facility. There he managed day-to-day operations of one of the country's largest biosolids drying and pelletizing facilities.

Lee holds a B.S. in Mechanical Engineering from the University of Virginia. He has a Green Belt Training certification from Lean Six Sigma.



Curt DeBrunner

Area Sales Manager

Synagro Technologies, Inc.

Area Sales Manager (2022- present)

Joined Synagro in 2022 as the Area Sales Manager for the Florida Region. Mr. DeBrunner's primary duties are to develop cost effective, compliant and sustainable solutions for both existing and potential clients. Mr. DeBrunner's role requires project management, P&L management, regulatory compliance, contract negotiations, and team management.

Mr. DeBrunner has over 26 years of experience working in the environmental services and waste management industries. He has extensive experience in working with Federal, State and Municipal areas as well as private and industrial industries. He is experienced with the regulatory environment and is trained in management of special wastes and hazardous waste (RCRA certified) Mr. DeBrunner is experienced with DOT compliance, landfill compliance, alternative disposal technologies and methods to create sustainable solutions.

ACCOUNT DEVELOPMENT MANAGER

Clean Harbors Environmental Services, Bartow, FL / Dec 2020 – 2022

- Hunter role new accounts, underpenetrated in FL, GA, AL
- Entire portfolio of CHES facilities & services
- Corporate utilities, chemical, manufacturing, pharmaceutical
- Salesforce proficiency, health & safety focused

SENIOR ACCOUNT EXECUTIVE

US Ecology, Tampa, FL / 1996-2020

- Responsible for municipal HHW accounts, universities and education lab pack business, engineering firms throughout Southeastern US
- Managed 70% of 67 FL county HHW programs revenue, \$4M annually, municipal industrial and field services
- Managed sales territories, developed and grew new and existing accounts to \$8M+ annually

EDUCATION

UNIVERSITY OF FLORIDA

Bachelor of Science
Degree – Environmental
Engineering

LICENSES AND CERTIFICATIONS

- 40-Hr HAZWOPER
Annual 8-Hr. Refresher
RCRA, DOT HM-141
Training, E.I.T -
Environmental
Engineering, IHMM
Member, NAHMMMA
Board of Directors

Curt DeBrunner, Area Sales Manager

Curt DeBrunner joined Synagro in 2022 as the Area Sales Manager for the company's Florida region. Curt's primary duties are to develop cost effective, compliant, and sustainable solutions for both existing and potential clients. His role requires project management, P&L management, regulatory compliance, contract negotiations, and team management.

Having previously worked for Clean Harbors Environmental Services and US Ecology, Curt has over 26 years of experience working in the environmental services and waste management industries. He has extensive experience in working with Federal, State and Municipal areas as well as private and industrial industries. He is experienced with the regulatory environment and is trained in management of special wastes and hazardous waste (RCRA certified). Curt is also experienced with DOT compliance, landfill compliance, alternative disposal technologies and methods to create sustainable solutions.

Curt holds a Bachelor of Science in Environmental Engineering from the University of Florida.



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Jonathan P. Steverson
Secretary

Permit Issued to:

Berman Road Landfill
Okeechobee Landfill, Inc.
10800 NE 128th Avenue,
Unincorporated Okeechobee County, Florida
863-357-0824

WACS Facility ID No.: 70436
Facility Name: Berman Road Landfill
Facility Address: 10800 NE 128th Avenue
Unincorporated Okeechobee County, Florida

Contact Person:
Tony Bishop, District Manager
10800 NE 128th Avenue, Okeechobee, Florida 34972
Tbishop2@wm.com
863-357-0824

Solid Waste Construct/Operate Permit – Class I Landfill
Permit Nos.: 0040842-048-SC and 0040842-049-SO, 0040842-052-SC-MM,
0040842-053-SO-MM, 0040842-054-SO-MM, 0040842-056-SO-MM ~~and~~ 0040842-057-SO-
MM and 0040842-058-SO-IM
Replace Permit Nos.: 004842-026-SC; 004842-027-SC-MM; 004842-029-SO-MM;
004842-030-SC-MM; 004842-031-SC-MM; 004842-032-SC-MM; 004842-039-SC-MM;
004842-040-SO-MM; 004842-042-SO-IM; 004842-043-SO-MM; and 004842-046-SO-MM;

Permit Issued: September 7, 2016
Permit Renewal Application Due Date: July 8, 2036
Permit Expires: September 7, 2036

Permitting Authority:
Florida Department of Environmental Protection
Solid Waste Program & Permitting
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Updated April 14, 2020
Updated December 4, 2019



OKEECHOBEE LANDFILL

10800 N.E. 128th Avenue
Okeechobee, FL 34973
800 963 4776

HOURS OF OPERATION

5:00am – 4:00pm Monday – Friday
7:00am – 12:00pm Saturday

Okeechobee Landfill

Serving greater south/central Florida, Okeechobee Landfill provides local businesses and industry with professional disposal services that are safe, convenient and meet the highest standards for environmental compliance.

Containment Design

Okeechobee Landfill protects the environment by ensuring that all waste is contained and isolated from soil and groundwater. This site utilizes a geosynthetic double-composite liner.

Groundwater Monitoring

Groundwater is monitored semi-annually by 24 perimeter and interior monitoring wells.

Landfill Gas Management

This site collects and manages landfill gas to generate renewable energy, reduce emissions, and prevent odor. The system collects landfill gas through vertical and horizontal pipes within the landfill. It collects approximately 3,000 cubic feet per minute of landfill gas.

Leachate Collection & Treatment

Leachate is managed by injection into a fully-permitted on-site underground injection well capable of receiving over 3 MGD.

YEAR OPENED

1992

PROJECTED LIFE REMAINING

150 years

FACILITY ACREAGE

4,100 acres

PERMITTED FOOTPRINT

969 permitted acres

REMAINING PERMITTED CAPACITY

215,196,453 tons

TONS PROCESSED ANNUALLY

1.0 million tons approximately

OWNERSHIP

Okeechobee Landfill, Inc.

PERMIT TYPE & PERMIT

Solid Waste Permit #0040842-026-SC,
Environmental Resources Permit
#SI 47-0131315-018 and
Title V Permit #0930104-011-AV

NUMBER OF EMPLOYEES

21

WASTE MANAGEMENT

Acceptable Material

Asbestos – Friable

Asbestos – Non-Friable

Auto Shredder Residue

Biosolids

CERCLA Waste

Construction and Demolition (C&D) Debris

Industrial and Special Waste

Liquid Waste (Non-hazardous)

Municipal Solid Waste (MSW)

Tires

Vegetative Waste, Animal Byproducts
and Manure for Composting

Yard Waste

Unacceptable Material

Hazardous Waste

Additional Services Provided

Hydration of Dry Ash Wastes

Organic Waste Composting

Recycling of Yard Waste, Tires, White Goods and Organic Wastes

Transportation Services

Underground Injection of Non-hazardous Liquid Wastes

Approval Process

Waste Management has a defined waste screening protocol for each of its non-hazardous waste facilities, which protects both our employees and the environment. For all industrial and special waste streams, the generator or agent must complete a waste profile (available online at wmsolutions.com) for review by our technical staff.

Risk Mitigation

Waste Management provides the highest level of services, backed with state-of-the-art site design and management systems, to minimize risks and reduce liabilities from fines, lawsuits, sanctions or other legal or regulatory actions.

Community Partnerships and Involvement

Waste Management is proud to be an active supporter of community events and programs that make our area a cleaner and healthier place to live, work and play.

THIS FACILITY ALSO SUPPORTS THE FOLLOWING EVENTS, CHARITIES, SCHOOLS AND SERVICE GROUPS:

All Florida Junior Team Rodeo

American Cancer Society Relay for Life

Kiwanis of Okeechobee

March of Dimes

Real Life Children's Ranch

Okeechobee Cattlemen's Association

Okeechobee Chamber of Commerce

Okeechobee County Schools

Okeechobee Economic Development Council

Okeechobee Educational Foundation

Okeechobee Main Street

Okeechobee Youth Livestock Show and Sale

Waste Management Local Scholarships



CONTACT

Technical Support

TSC Emelle

205 652 9721 or 800 963 4776

TSCAlabama@wm.com

COMMUNITY RELATIONS

Teresa Chandler

863 824 4013 or tchandler@wm.com

COMMUNITIES SERVED

Central and Southern Florida



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THINK GREEN®

State of Florida

Department of State

I certify from the records of this office that SYNAGRO SOUTH, LLC is a Delaware limited liability company authorized to transact business in the State of Florida, qualified on February 17, 2006.

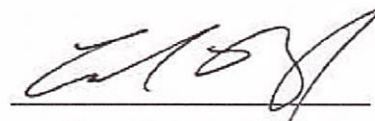
The document number of this limited liability company is M06000000941.

I further certify that said limited liability company has paid all fees due this office through December 31, 2024, that its most recent annual report was filed on April 2, 2024, and that its status is active.

I further certify that said limited liability company has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Second day of January, 2025*




Secretary of State

Tracking Number: 9830985692CU

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



February 20, 2006

FLORIDA DEPARTMENT OF STATE
Division of Corporations

SYNAGRO SOUTH, LLC
4512 BRITTMOORE RD.
HOUSTON, TX 77041

Qualification documents for SYNAGRO SOUTH, LLC were filed on February 17, 2006, and assigned document number M06000000941. Please refer to this number whenever corresponding with this office.

Your limited liability company is now qualified and authorized to transact business in Florida as of the file date. In accordance with section 608.406(2), F.S., the name of this limited liability company is filed with the Department of State for public notice only and is granted without regard to any other name recorded with the Division of Corporations.

This document was electronically received and filed under FAX audit number H06000044836.

A limited liability company annual report/uniform business report will be due this office between January 1 and May 1 of the year following the calendar year of the file date. A Federal Employer Identification (FEI) number will be required before this report can be filed. If you do not already have an FEI number, please apply NOW with the Internal Revenue by calling 1-800-829-3676 and requesting form SS-4.

Please be aware if the limited liability company address changes, it is the responsibility of the corporation to notify this office.

Should you have any questions regarding this matter, please contact this office at the address given below.

Deborah Bruce
Document Specialist
Registration/Foreign Qualification
Division of Corporations

Letter Number: 406A00011725

**APPLICATION BY FOREIGN LIMITED LIABILITY COMPANY FOR AUTHORIZATION TO
TRANSACTION BUSINESS IN FLORIDA**

*IN COMPLIANCE WITH SECTION 608.503, FLORIDA STATUTES, THE FOLLOWING IS SUBMITTED TO REGISTER A FOREIGN
LIMITED LIABILITY COMPANY TO TRANSACTION BUSINESS IN THE STATE OF FLORIDA:*

1. Synagro South, LLC
(Name of Foreign Limited Liability Company)

2. Delaware
(Jurisdiction under the law of which foreign limited liability company is organized)

3. 76-0612567
(FEI number, if applicable)

4. 12/31/2005
(Date of Organization)

5. Perpetual
(Duration: Year limited liability company will cease to exist or "perpetual")

6. _____
(Date first transacted business in Florida, if prior to registration.)
(See sections 608.501 & 608.502 F.S. to determine penalty liability)

7. 4512 Brittnmoore Road
Houston, TX 77041
(Street Address of Principal Office)

8. If limited liability company is a manager-managed company, check here ☒

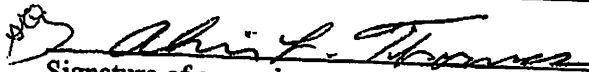
9. The name and usual business addresses of the managing members or managers are as follows:

Synagro-WWT, Inc., 1800 Bering Drive, Suite 1000, Houston, TX 77057

10. Attached is an original certificate of existence, no more than 90 days old, duly authenticated by the official having custody of records in the jurisdiction under the law of which it is organized. (A photocopy is not acceptable. If the certificate is in a foreign language, a translation of the certificate under oath of the translator must be submitted.)

11. Nature of business or purposes to be conducted or promoted in Florida: _____

Residuals Management Services


Signature of a member or an authorized representative of a member.
(In accordance with section 608.408(3), F.S., the execution of this document constitutes an affirmation under the penalties of perjury that the facts stated herein are true.)

Alvin L. Thomas

Typed or printed name of signee
Vice President & Secretary, Synagro-WWT, Inc. - Manager

CERTIFICATE OF DESIGNATION OF REGISTERED AGENT/REGISTERED OFFICE

PURSUANT TO THE PROVISIONS OF SECTION 608.415 or 608.507, FLORIDA STATUTES, THE UNDERSIGNED LIMITED LIABILITY COMPANY SUBMITS THE FOLLOWING STATEMENT TO DESIGNATE A REGISTERED OFFICE AND REGISTERED AGENT IN THE STATE OF FLORIDA.

1. The name of the Limited Liability Company is:

Synagro South, LLC

2. The name and the Florida street address of the registered agent and office are:

CT Corporation System

(Name)

1200 South Pine Island Road

Florida Street Address (P.O. Box **NOT** ACCEPTABLE)

Plantation, Florida 33324

City/State/Zip

Having been named as registered agent and to accept service of process for the above stated limited liability company at the place designated in this certificate, I hereby accept the appointment as registered agent and agree to act in this capacity. I further agree to comply with the provisions of all statutes relating to the proper and complete performance of my duties, and I am familiar with and accept the obligations of my position as registered agent as provided for in Chapter 608, Florida Statutes.

CT Corporation System

By:

Denise Bell

(Signature)

Denise Bell
Assistant Secretary

\$ 100.00	Filing Fee for Application
\$ 25.00	Designation of Registered Agent
\$ 30.00	Certified Copy (optional)
\$ 5.00	Certificate of Status (optional)

Delaware

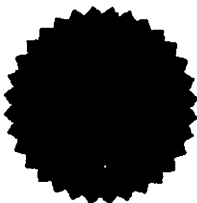
PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "SYNAGRO SOUTH, LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE FIRST DAY OF FEBRUARY, A.D. 2006.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL REPORTS HAVE BEEN FILED TO DATE.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE BEEN PAID TO DATE.



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

3060217 8300

060098035

AUTHENTICATION: 4493886

DATE: 02-01-06



Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950
US GHS

Synonyms: Hess Conventional (Oxygenated and Non-oxygenated) Gasoline; Reformulated Gasoline (RFG); Reformulated Gasoline Blendstock for Oxygenate Blending (RBOB); Unleaded Motor or Automotive Gasoline

*** Section 1 - Product and Company Identification ***

Manufacturer Information

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

Phone: 732-750-6000 Corporate EHS

Emergency # 800-424-9300 CHEMTREC

www.hess.com (Environment, Health, Safety Internet Website)

*** Section 2 - Hazards Identification ***

GHS Classification:

Flammable Liquid - Category 2
Skin Corrosion/Irritation - Category 2
Germ Cell Mutagenicity - Category 1B
Carcinogenicity - Category 1B
Toxic to Reproduction - Category 1A
Specific Target Organ Toxicity (Single Exposure) - Category 3 (respiratory irritation, narcosis)
Specific Target Organ Toxicity (Repeat Exposure) - Category 1 (liver, kidneys, bladder, blood, bone marrow, nervous system)
Aspiration Hazard - Category 1
Hazardous to the Aquatic Environment – Acute Hazard - Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statements

Highly flammable liquid and vapour.
Causes skin irritation.
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Causes damage to organs (liver, kidneys, bladder, blood, bone marrow, nervous system) through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands and forearms thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe mist/vapours/spray.
Use only outdoors or in well-ventilated area.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.

Response

In case of fire: Use water spray, fog, dry chemical fire extinguishers or hand held fire extinguisher.
IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.
IF exposed or concerned: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Get medical advice/attention if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.

Storage

Store in a well-ventilated place.
Keep cool. Keep container tightly closed.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
86290-81-5	Gasoline, motor fuel	100
108-88-3	Toluene	1-25
106-97-8	Butane	<10
1330-20-7	Xylenes (o-, m-, p- isomers)	1-15
95-63-6	Benzene, 1,2,4-trimethyl-	<6
64-17-5	Ethyl alcohol	0-10
100-41-4	Ethylbenzene	<3
71-43-2	Benzene	0.1-4.9

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

110-54-3	Hexane	0.5-4
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A complex blend of petroleum-derived normal and branched-chain alkane, cycloalkane, alkene, and aromatic hydrocarbons. May contain antioxidant and multifunctional additives. Non-oxygenated Conventional Gasoline and RBOB do not have oxygenates (Ethanol). Oxygenated Conventional and Reformulated Gasoline will have oxygenates for octane enhancement or as legally required.

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

First Aid: Skin

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops.

First Aid: Ingestion

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

First Aid: Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Contact with nitric and sulfuric acids will form nitroresols that can decompose violently.

Extinguishing Media

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO₂, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Firefighting foam suitable for polar solvents is recommended for fuel with greater than 10% oxygenate concentration.

Unsuitable Extinguishing Media

None

Safety Data Sheet

Material Name: Gasoline All Grades

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Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

*** Section 6 - Accidental Release Measures ***

Recovery and Neutralization

Carefully contain and stop the source of the spill, if safe to do so.

Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Caution, flammable vapors may accumulate in closed containers.

Emergency Measures

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Personal Precautions and Protective Equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental Precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Prevention of Secondary Hazards

None

*** Section 7 - Handling and Storage ***

Handling Procedures

USE ONLY AS A MOTOR FUEL.
DO NOT SIPHON BY MOUTH

Handle as a flammable liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

Storage Procedures

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

Incompatibilities

Keep away from strong oxidizers.

*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

Gasoline, motor fuel (86290-81-5)

ACGIH: 300 ppm TWA
500 ppm STEL

Toluene (108-88-3)

ACGIH: 20 ppm TWA
OSHA: 200 ppm TWA; 375 mg/m3 TWA
150 ppm STEL; 560 mg/m3 STEL
NIOSH: 100 ppm TWA; 375 mg/m3 TWA
150 ppm STEL; 560 mg/m3 STEL

Butane (106-97-8)

ACGIH: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)
OSHA: 800 ppm TWA; 1900 mg/m3 TWA
NIOSH: 800 ppm TWA; 1900 mg/m3 TWA

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: 100 ppm TWA
150 ppm STEL
OSHA: 100 ppm TWA; 435 mg/m3 TWA
150 ppm STEL; 655 mg/m3 STEL

Benzene, 1,2,4-trimethyl- (95-63-6)

NIOSH: 25 ppm TWA; 125 mg/m3 TWA

Ethyl alcohol (64-17-5)

ACGIH: 1000 ppm STEL
OSHA: 1000 ppm TWA; 1900 mg/m3 TWA
NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

Ethylbenzene (100-41-4)

ACGIH: 20 ppm TWA
OSHA: 100 ppm TWA; 435 mg/m3 TWA
125 ppm STEL; 545 mg/m3 STEL
NIOSH: 100 ppm TWA; 435 mg/m3 TWA
125 ppm STEL; 545 mg/m3 STEL

Benzene (71-43-2)

ACGIH: 0.5 ppm TWA
2.5 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action
Level; 1 ppm TWA
NIOSH: 0.1 ppm TWA
1 ppm STEL

Hexane (110-54-3)

ACGIH: 50 ppm TWA
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 500 ppm TWA; 1800 mg/m3 TWA
NIOSH: 50 ppm TWA; 180 mg/m3 TWA

Engineering Measures

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

Personal Protective Equipment: Hands

Gloves constructed of nitrile, neoprene, or PVC are recommended.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

Personal Protective Equipment: Skin and Body

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Translucent, straw-colored or light yellow	Odor:	Strong, characteristic aromatic hydrocarbon odor. Sweet-ether like
Physical State:	Liquid	pH:	ND
Vapor Pressure:	6.4 - 15 RVP @ 100 °F (38 °C) (275-475 mm Hg @ 68 °F (20 °C)	Vapor Density:	AP 3-4
Boiling Point:	85-437 °F (39-200 °C)	Melting Point:	ND
Solubility (H2O):	Negligible to Slight	Specific Gravity:	0.70-0.78
Evaporation Rate:	10-11	VOC:	ND
Percent Volatile:	100%	Octanol/H2O Coeff.:	ND
Flash Point:	-45 °F (-43 °C)	Flash Point Method:	PMCC
Upper Flammability Limit (UFL):	7.6%	Lower Flammability Limit (LFL):	1.4%
Burning Rate:	ND	Auto Ignition:	>530°F (>280°C)

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

Incompatible Products

Keep away from strong oxidizers.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Contact with nitric and sulfuric acids will form nitroresols that can decompose violently.

*** Section 11 - Toxicological Information ***

Acute Toxicity

A: General Product Information

Harmful if swallowed.

B: Component Analysis - LD50/LC50

Gasoline, motor fuel (86290-81-5)

Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat 14000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

Toluene (108-88-3)

Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg

Butane (106-97-8)

Inhalation LC50 Rat 658 mg/L 4 h

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

Xylenes (o-, m-, p- isomers) (1330-20-7)

Inhalation LC50 Rat 5000 ppm 4 h; Inhalation LC50 Rat 47635 mg/L 4 h; Oral LD50 Rat 4300 mg/kg; Dermal LD50 Rabbit >1700 mg/kg

Benzene, 1,2,4-trimethyl- (95-63-6)

Inhalation LC50 Rat 18 g/m3 4 h; Oral LD50 Rat 3400 mg/kg; Dermal LD50 Rabbit >3160 mg/kg

Ethyl alcohol (64-17-5)

Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

Ethylbenzene (100-41-4)

Inhalation LC50 Rat 17.2 mg/L 4 h; Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit 15354 mg/kg

Benzene (71-43-2)

Inhalation LC50 Rat 13050-14380 ppm 4 h; Oral LD50 Rat 1800 mg/kg

Hexane (110-54-3)

Inhalation LC50 Rat 48000 ppm 4 h; Oral LD50 Rat 25 g/kg; Dermal LD50 Rabbit 3000 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Moderate irritant. Contact with liquid or vapor may cause irritation.

Potential Health Effects: Ingestion

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

Potential Health Effects: Inhalation

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

This product may cause genetic defects.

Carcinogenicity

A: General Product Information

May cause cancer.

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

IARC has determined that gasoline and gasoline exhaust are possibly carcinogenic in humans. Inhalation exposure to completely vaporized unleaded gasoline caused kidney cancers in male rats and liver tumors in female mice. The U.S. EPA has determined that the male kidney tumors are species-specific and are irrelevant for human health risk assessment. The significance of the tumors seen in female mice is not known. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with effects to the central and peripheral nervous systems, liver, and kidneys. The significance of these animal models to predict similar human response to gasoline is uncertain.

This product contains benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-forming system (particularly bone marrow), and serious blood disorders such as aplastic anemia and leukemia. Benzene is listed as a human carcinogen by the NTP, IARC, OSHA and ACGIH.

B: Component Carcinogenicity

Gasoline, motor fuel (86290-81-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Ethyl alcohol (64-17-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC: Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages) (Group 1 (carcinogenic to humans))

Ethylbenzene (100-41-4)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC: Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

Benzene (71-43-2)

ACGIH: A1 - Confirmed Human Carcinogen

OSHA: 5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Select Carcinogen)

IARC: Monograph 100F [in preparation]; Supplement 7 [1987]; Monograph 29 [1982] (Group 1 (carcinogenic to humans))

Reproductive Toxicity

This product is suspected of damaging fertility or the unborn child.

Specified Target Organ General Toxicity: Single Exposure

This product may cause drowsiness or dizziness.

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

Specified Target Organ General Toxicity: Repeated Exposure

This product causes damage to organs through prolonged or repeated exposure.

Aspiration Respiratory Organs Hazard

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

Very toxic to aquatic life with long lasting effects. Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Gasoline, motor fuel (86290-81-5)

Test & Species	Conditions
96 Hr LC50 <i>Alburnus alburnus</i>	119 mg/L [static]
96 Hr LC50 <i>Cyprinodon variegatus</i>	82 mg/L [static]
72 Hr EC50 <i>Pseudokirchneriella subcapitata</i>	56 mg/L
24 Hr EC50 <i>Daphnia magna</i>	170 mg/L

Toluene (108-88-3)

Test & Species	Conditions
96 Hr LC50 <i>Pimephales promelas</i>	15.22-19.05 mg/L [flow-through]
96 Hr LC50 <i>Pimephales promelas</i>	12.6 mg/L [static]
96 Hr LC50 <i>Oncorhynchus mykiss</i>	5.89-7.81 mg/L [flow-through]
96 Hr LC50 <i>Oncorhynchus mykiss</i>	14.1-17.16 mg/L [static]
96 Hr LC50 <i>Oncorhynchus mykiss</i>	5.8 mg/L [semi-static]
96 Hr LC50 <i>Lepomis macrochirus</i>	11.0-15.0 mg/L [static]
96 Hr LC50 <i>Oryzias latipes</i>	54 mg/L [static]
96 Hr LC50 <i>Poecilia reticulata</i>	28.2 mg/L [semi-static]
96 Hr LC50 <i>Poecilia reticulata</i>	50.87-70.34 mg/L [static]
96 Hr EC50 <i>Pseudokirchneriella subcapitata</i>	>433 mg/L
72 Hr EC50 <i>Pseudokirchneriella subcapitata</i>	12.5 mg/L [static]
48 Hr EC50 <i>Daphnia magna</i>	5.46 - 9.83 mg/L [Static]
48 Hr EC50 <i>Daphnia magna</i>	11.5 mg/L

Xylenes (o-, m-, p- isomers) (1330-20-7)

Test & Species	Conditions
96 Hr LC50 <i>Pimephales promelas</i>	13.4 mg/L [flow-through]

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96 Hr LC50 Oncorhynchus mykiss	2.661-4.093 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	13.5-17.3 mg/L
96 Hr LC50 Lepomis macrochirus	13.1-16.5 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	19 mg/L
96 Hr LC50 Lepomis macrochirus	7.711-9.591 mg/L [static]
96 Hr LC50 Pimephales promelas	23.53-29.97 mg/L [static]
96 Hr LC50 Cyprinus carpio	780 mg/L [semi-static]
96 Hr LC50 Cyprinus carpio	>780 mg/L
96 Hr LC50 Poecilia reticulata	30.26-40.75 mg/L [static]
48 Hr EC50 water flea	3.82 mg/L
48 Hr LC50 Gammarus lacustris	0.6 mg/L

Benzene, 1,2,4-trimethyl- (95-63-6)

Test & Species

Conditions

96 Hr LC50 Pimephales promelas	7.19-8.28 mg/L [flow-through]
48 Hr EC50 Daphnia magna	6.14 mg/L

Ethyl alcohol (64-17-5)

Test & Species

Conditions

96 Hr LC50 Oncorhynchus mykiss	12.0 - 16.0 mL/L [static]
96 Hr LC50 Pimephales promelas	>100 mg/L [static]
96 Hr LC50 Pimephales promelas	13400 - 15100 mg/L [flow-through]
48 Hr LC50 Daphnia magna	9268 - 14221 mg/L
24 Hr EC50 Daphnia magna	10800 mg/L
48 Hr EC50 Daphnia magna	2 mg/L [Static]

Ethylbenzene (100-41-4)

Test & Species

Conditions

96 Hr LC50 Oncorhynchus mykiss	11.0-18.0 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	4.2 mg/L [semi-static]
96 Hr LC50 Pimephales promelas	7.55-11 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	32 mg/L [static]
96 Hr LC50 Pimephales promelas	9.1-15.6 mg/L [static]
96 Hr LC50 Poecilia reticulata	9.6 mg/L [static]
72 Hr EC50 Pseudokirchneriella subcapitata	4.6 mg/L
96 Hr EC50 Pseudokirchneriella subcapitata	>438 mg/L
72 Hr EC50 Pseudokirchneriella subcapitata	2.6 - 11.3 mg/L [static]

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

96 Hr EC50 Pseudokirchneriella subcapitata	1.7 - 7.6 mg/L [static]
48 Hr EC50 Daphnia magna	1.8 - 2.4 mg/L

Benzene (71-43-2)

Test & Species

Conditions

96 Hr LC50 Pimephales promelas	10.7-14.7 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	5.3 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	22.49 mg/L [static]
96 Hr LC50 Poecilia reticulata	28.6 mg/L [static]
96 Hr LC50 Pimephales promelas	22330-41160 µg/L [static]
96 Hr LC50 Lepomis macrochirus	70000-142000 µg/L [static]
72 Hr EC50 Pseudokirchneriella subcapitata	29 mg/L
48 Hr EC50 Daphnia magna	8.76 - 15.6 mg/L [Static]
48 Hr EC50 Daphnia magna	10 mg/L

Hexane (110-54-3)

Test & Species

Conditions

96 Hr LC50 Pimephales promelas	2.1-2.98 mg/L [flow-through]
24 Hr EC50 Daphnia magna	>1000 mg/L

Persistence/Degradability

No information available.

Bioaccumulation

No information available.

Mobility in Soil

No information available.

*** Section 13 - Disposal Considerations ***

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

*** Section 14 - Transportation Information ***

Component Marine Pollutants

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS #	
Gasoline, motor fuel	86290-81-5	DOT regulated marine pollutant

DOT Information

Shipping Name: Gasoline

UN #: 1203 Hazard Class: 3 Packing Group: II

Placard:



*** Section 15 - Regulatory Information ***

Regulatory Information

A: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Toluene (108-88-3)

SARA 313: 1.0 % de minimis concentration
CERCLA: 1000 lb final RQ; 454 kg final RQ

Xylenes (o-, m-, p- isomers) (1330-20-7)

SARA 313: 1.0 % de minimis concentration
CERCLA: 100 lb final RQ; 45.4 kg final RQ

Benzene, 1,2,4-trimethyl- (95-63-6)

SARA 313: 1.0 % de minimis concentration

Ethylbenzene (100-41-4)

SARA 313: 0.1 % de minimis concentration
CERCLA: 1000 lb final RQ; 454 kg final RQ

Benzene (71-43-2)

SARA 313: 0.1 % de minimis concentration
CERCLA: 10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule)

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

Hexane (110-54-3)

SARA 313: 1.0 % de minimis concentration

CERCLA: 5000 lb final RQ; 2270 kg final RQ

SARA Section 311/312 – Hazard Classes

Acute Health

X

Chronic Health

X

Fire

X

Sudden Release of Pressure

--

Reactive

--

Component Marine Pollutants

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS #	
Gasoline, motor fuel	86290-81-5	DOT regulated marine pollutant

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Gasoline, motor fuel	86290-81-5	No	No	No	No	Yes	No
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes	No
Butane	106-97-8	Yes	Yes	Yes	Yes	Yes	No
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes	No
Benzene, 1,2,4-trimethyl-	95-63-6	No	Yes	Yes	Yes	Yes	No
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes	No
Ethylbenzene	100-41-4	Yes	Yes	Yes	Yes	Yes	No
Benzene	71-43-2	Yes	Yes	Yes	Yes	Yes	No
Hexane	110-54-3	No	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Toluene	108-88-3	1 %
Butane	106-97-8	1 %
Benzene, 1,2,4-trimethyl-	95-63-6	0.1 %
Ethyl alcohol	64-17-5	0.1 %
Ethylbenzene	100-41-4	0.1 %
Benzene	71-43-2	0.1 %
Hexane	110-54-3	1 %

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Gasoline, motor fuel	86290-81-5	No	DSL	EINECS
Toluene	108-88-3	Yes	DSL	EINECS
Butane	106-97-8	Yes	DSL	EINECS
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	DSL	EINECS
Benzene, 1,2,4-trimethyl-	95-63-6	Yes	DSL	EINECS
Ethyl alcohol	64-17-5	Yes	DSL	EINECS
Ethylbenzene	100-41-4	Yes	DSL	EINECS
Benzene	71-43-2	Yes	DSL	EINECS
Hexane	110-54-3	Yes	DSL	EINECS

*** Section 16 - Other Information ***

NFPA® Hazard Rating Health 2
 Fire 3
 Reactivity 0



HMIS® Hazard Rating Health 2 Moderate
 Fire 3 Serious
 Physical 0 Minimal
 *Chronic

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References

None

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950

Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet

Common Name: ANTIFREEZE/COOLANT

Manufacturer: PRESTONE PRODUCTS

SDS Revision Date: 4/16/2014

SDS Format: GHS-US

Item Number(s): 48RD30

Manufacturer Model Number(s):

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PRESTONE (R*)

SDS501

PRESTONE (R*) ANTIFREEZE/COOLANT

DATE PREPARED: 04/16/2014

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION top

SDS ID: SDS 501

PRODUCT NAME: PRESTONE (R*) ANTIFREEZE/COOLANT

PRODUCT NUMBER:

AF2000X, AF2000L, AF2050, AF2055, 72025, 71605, 71621, PRES04C, AF2000UK, AF2000PL, AF2000-1KL, AF2000LRU, AF2000RU, 65069, AF2000/GF, AF2000/GFC, AF2055/GF, AF2000-1KL/GF, AF2000/GXF, AF2000/GXF-HT, 71621/GF, 71621/GFC, 71621/GFC3

FORMULA NUMBER:

YA956BY, YA956BY-B, YA956BY-ED, YA956BY-ED-B, YA-956BY-GLY, YA-992

MANUFACTURER:

PRESTONE PRODUCTS CORPORATION

DANBURY, CT 06810-5109

CANADIAN OFFICE:

FRAM GROUP (CANADA), INC.

MISSISSAUGA, ONTARIO L5L 3S6

MEDICAL EMERGENCIES AND ALL OTHER INFORMATION PHONE NUMBER:

(800)890-2075 (IN THE US)

(800)668-9349 (IN CANADA)

TRANSPORTATION EMERGENCY PHONE NUMBER (CHEMICAL SPILLS AND TRANSPORT ACCIDENTS ONLY):

CHEMTREC: 1-800-424-9300 (IN THE US)

CANUTEC: (613)996-6666 (IN CANADA)

SDS DATE OF PREPARATION/REVISION: 04/16/14

PRODUCT USE: AUTOMOBILE ANTIFREEZE - CONSUMER PRODUCT

RESTRICTIONS ON USE: NONE IDENTIFIED

2. HAZARDS IDENTIFICATION top

GHS/HAZCOM 2012 CLASSIFICATION:

HEALTH

ACUTE TOXICITY: CATEGORY 4

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:

CATEGORY 2

REPRODUCTIVE TOXICITY: CATEGORY 2

LABEL ELEMENTS:

EXCLAMATION MARK

HEALTH HAZARD

WARNING!

H302: HARMFUL IF SWALLOWED.

H361D: SUSPECTED OF DAMAGING THE UNBORN CHILD.

H373: MAY CAUSE DAMAGE TO KIDNEYS THROUGH PROLONGED OR REPEATED EXPOSURE.

PREVENTION:

P201: OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

P202:

DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

P260: DO NOT BREATHE MIST OR VAPORS.

P264: WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING.

P270: DO NOT EAT, DRINK, OR SMOKE WHEN USING THIS PRODUCT.

P281: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.

RESPONSE:

P301 + P312:

IF SWALLOWED: CALL A POISON CENTER OR PHYSICIAN IF YOU FEEL UNWELL.

P330: RINSE MOUTH.

P308 + P313:

IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE.

DISPOSAL:

P405: STORE LOCKED UP.

P501:

DISPOSE OF CONTENTS AND CONTAINER IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.

3. COMPOSITION/INFORMATION ON INGREDIENTS top

COMPONENT	CAS NO.	AMOUNT
ETHYLENE GLYCOL	107-21-1	75-95%
2-ETHYL HEXANOIC ACID, SODIUM SALT	19766-89-3	1-5%
NEODECANOIC ACID, SODIUM SALT	31548-27-3	1-5%
DIETHYLENE GLYCOL	111-46-6	0-5%

THE EXACT CONCENTRATIONS ARE A TRADE SECRET.

4. FIRST AID MEASURES top

INHALATION:

REMOVE THE VICTIM TO FRESH AIR. IF BREATHING HAS STOPPED ADMINISTER ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, HAVE MEDICAL PERSONNEL ADMINISTER OXYGEN. GET MEDICAL ATTENTION.

SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING. IMMEDIATELY WASH CONTACTED AREA THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION:

SEEK IMMEDIATE MEDICAL ATTENTION. IMMEDIATELY CALL LOCAL POISON CONTROL CENTER OR GO TO AN EMERGENCY DEPARTMENT. NEVER GIVE ANYTHING BY MOUTH TO OR INDUCE VOMITING IN AN UNCONSCIOUS OR DROWSY PERSON.

MOST IMPORTANT SYMPTOMS:

MAY CAUSE EYE IRRITATION. INHALATION OF MISTS MAY CAUSE NOSE AND THROAT IRRITATION AND NERVOUS SYSTEM EFFECTS. INGESTION MAY CAUSE ABDOMINAL DISCOMFORT OR PAIN, NAUSEA, VOMITING, DIZZINESS, DROWSINESS, MALAISE, BLURRING OF VISION, IRRITABILITY, BACK PAIN, DECREASE IN URINE OUTPUT, KIDNEY FAILURE, AND CENTRAL NERVOUS SYSTEM EFFECTS.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED: SEEK IMMEDIATE MEDICAL ATTENTION FOR LARGE INGESTIONS.

NOTES TO PHYSICIAN:

THE PRINCIPAL TOXIC EFFECTS OF ETHYLENE GLYCOL, WHEN SWALLOWED, ARE KIDNEY DAMAGE AND METABOLIC ACIDOSIS. THE COMBINATION OF METABOLIC ACIDOSIS, AN OSMOL GAP AND OXALATE CRYSTALS IN THE URINE IS EVIDENCE OF ETHYLENE GLYCOL POISONING. PULMONARY EDEMA WITH HYPOXEMIA HAS BEEN DESCRIBED IN A NUMBER OF PATIENTS FOLLOWING POISONING WITH ETHYLENE GLYCOL. RESPIRATORY SUPPORT WITH MECHANICAL VENTILATION MAY BE REQUIRED. THERE MAY BE CRANIAL NERVE INVOLVEMENT IN THE LATE STAGES OF TOXICITY FROM SWALLOWED ETHYLENE GLYCOL. IN PARTICULAR, EFFECTS HAVE BEEN REPORTED INVOLVING THE SEVENTH, EIGHTH, AND NINTH CRANIAL NERVES, PRESENTING WITH BILATERAL FACIAL PARALYSIS, DIMINISHED HEARING AND DYSPHAGIA.

ETHANOL IS ANTIDOTAL AND ITS EARLY ADMINISTRATION MAY BLOCK THE FORMATION OF NEPHROTOXIC METABOLITES OF ETHYLENE GLYCOL IN THE LIVER. THE OBJECTIVE IS TO RAPIDLY ACHIEVE AND MAINTAIN A BLOOD ETHANOL LEVEL OF APPROXIMATELY 100 MG/DL BY GIVING A LOADING DOSE OF ETHANOL FOLLOWED BY A MAINTENANCE DOSE. INTRAVENOUS ADMINISTRATION OF ETHANOL IS THE PREFERRED ROUTE. ETHANOL BLOOD LEVELS SHOULD BE CHECKED FREQUENTLY. HEMODIALYSIS MAY BE REQUIRED.

4-METHYL PYRAZOLE (FOMEPIZOLE(R*)), A POTENT INHIBITOR OF ALCOHOL DEHYDROGENASE, HAS BEEN USED THERAPEUTICALLY TO DECREASE THE METABOLIC CONSEQUENCES OF ETHYLENE GLYCOL POISONING. FOMEPIZOLE(R*) IS EASIER TO USE CLINICALLY THAN ETHANOL, DOES NOT CAUSE CNS DEPRESSION OR HYPOGLYCEMIA AND REQUIRES LESS MONITORING THAN ETHANOL. ADDITIONAL THERAPEUTIC MODALITIES WHICH MAY DECREASE THE ADVERSE CONSEQUENCES OF ETHYLENE GLYCOL METABOLISM ARE THE ADMINISTRATION OF BOTH THIAMINE AND PYRIDOXINE. AS THERE ARE COMPLICATED AND SERIOUS OVERDOSES, WE RECOMMEND YOU CONSULT WITH THE TOXICOLOGISTS AT YOUR POISON CONTROL CENTER.

5. FIREFIGHTING MEASURES top

SUITABLE EXTINGUISHING MEDIA:

FOR LARGE FIRES, USE ALCOHOL TYPE OR ALL-PURPOSE FOAMS. FOR SMALL FIRES, USE WATER SPRAY, CARBON DIOXIDE OR DRY CHEMICAL.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

A SOLID STREAM OF WATER OR FOAM DIRECTED INTO HOT, BURNING LIQUID CAN CAUSE FROTHING. BURNING MAY PRODUCE CARBON MONOXIDE AND CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT SPRAY POOL FIRES DIRECTLY. FIREFIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING FOR FIRES IN AREAS WHERE CHEMICALS ARE USED OR STORED.

6. ACCIDENTAL RELEASE MEASURES top

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

WEAR APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT (SEE SECTION 8).

METHODS AND MATERIALS FOR CONTAINMENT/CLEANUP:

COLLECT WITH ABSORBENT MATERIAL AND PLACE IN APPROPRIATE, LABELED CONTAINER FOR DISPOSAL OR, IF PERMITTED FLUSH SPILL AREA WITH WATER.

7. HANDLING AND STORAGE top

PRECAUTIONS FOR SAFE HANDLING:

HARMFUL OR FATAL IF SWALLOWED. DO NOT DRINK ANTIFREEZE OR SOLUTION. AVOID EYE AND PROLONGED OR REPEATED SKIN CONTACT. AVOID BREATHING VAPORS OR

MISTS. WASH EXPOSED SKIN THOROUGHLY WITH SOAP AND WATER AFTER USE. DO NOT STORE IN OPENED OR UNLABELED CONTAINERS. KEEP CONTAINER AWAY FROM OPEN FLAMES AND EXCESSIVE HEAT. DO NOT REUSE EMPTY CONTAINERS UNLESS PROPERLY CLEANED. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND MAY BE DANGEROUS. DO NOT CUT, WELD, DRILL, ETC. CONTAINERS, EVEN EMPTY.

SUDDEN RELEASE OF HOT ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED TEMPERATURE AND PRESSURE, OR SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMENT, MAY RESULT IN IGNITIONS WITHOUT ANY OBVIOUS IGNITION SOURCES. PUBLISHED "AUTOIGNITION" OR "IGNITION" TEMPERATURES CANNOT BE TREATED AS SAFE OPERATING TEMPERATURES IN CHEMICAL PROCESSES WITHOUT ANALYSIS OF THE ACTUAL PROCESS CONDITIONS. USE OF THIS PRODUCT IN ELEVATED TEMPERATURE APPLICATIONS SHOULD BE THOROUGHLY EVALUATED TO ASSURE SAFE OPERATING CONDITIONS.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
STORE AWAY FROM EXCESSIVE HEAT AND OXIDIZERS.

NFPA CLASSIFICATION: IIIB

8. EXPOSURE CONTROLS / PERSONAL PROTECTION top

EXPOSURE GUIDELINES:

CHEMICAL	EXPOSURE LIMIT
ETHYLENE GLYCOL (AS AEROSOL)	100 MG/M3 CEILING ACGIH TLV
2-ETHYL HEXANOIC ACID, SODIUM SALT	NONE ESTABLISHED
NEODECANOIC ACID, SODIUM SALT	NONE ESTABLISHED
DIETHYLENE GLYCOL	10 MG/M3 TWA AIHA WEEL

VENTILATION:

USE GENERAL VENTILATION OR LOCAL EXHAUST AS REQUIRED TO MAINTAIN EXPOSURES BELOW THE OCCUPATIONAL EXPOSURE LIMITS.

RESPIRATORY PROTECTION:

FOR OPERATIONS WHERE THE TLV IS EXCEEDED A NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGES AND DUST/MIST PREFILTERS OR SUPPLIED AIR RESPIRATOR IS RECOMMENDED. EQUIPMENT SELECTION DEPENDS ON CONTAMINANT TYPE AND CONCENTRATION. SELECT AND USE IN ACCORDANCE WITH 29 CFR 1910.134 AND GOOD INDUSTRIAL HYGIENE PRACTICE. FOR FIREFIGHTING, USE SELF-CONTAINED BREATHING APPARATUS.

GLOVES:

CHEMICAL RESISTANT GLOVES SUCH AS NEOPRENE OR PVC WHERE CONTACT IS POSSIBLE.

EYE PROTECTION: SPLASH-PROOF GOGGLES.

OTHER PROTECTIVE EQUIPMENT/CLOTHING:

APPROPRIATE PROTECTIVE CLOTHING AS NEEDED TO MINIMIZE SKIN CONTACT.

9. PHYSICAL AND CHEMICAL PROPERTIES top

APPEARANCE: YELLOW LIQUID

ODOR: CHARACTERISTIC ODOR

ODOR THRESHOLD: NONE

PH: 8.7-9.2

MELTING/FREEZING POINT:

-34 DEG. F (-36.6 DEG. C) - -36 DEG. F (-37.7 DEG. C)

BOILING POINT/RANGE: 327 DEG. F (164 DEG. C) - 340 DEG. F (171.1 DEG. C)

FLASH POINT:

254 DEG. F (123 DEG. C) TOC

>230 DEG. F (>110 DEG. C) SETAFLASH

EVAPORATION RATE: NOT DETERMINED

FLAMMABILITY (SOLID, GAS): NOT APPLICABLE

FLAMMABILITY LIMITS:

LEL: NOT DETERMINED

UEL: NOT DETERMINED

VAPOR PRESSURE: <0.06 MM Hg @20 DEG. C

VAPOR DENSITY: 2.1
RELATIVE DENSITY: 1.07-1.14
SOLUBILITIES WATER: COMPLETE
PARTITION COEFFICIENT (N-OCTANOL/WATER): NOT DETERMINED
AUTOIGNITION TEMPERATURE: NOT DETERMINED
DECOMPOSITION TEMPERATURE: NOT DETERMINED
VISCOSITY: NOT DETERMINED

10. STABILITY AND REACTIVITY Δ_{top}

REACTIVITY: NORMALLY UNREACTIVE
CHEMICAL STABILITY: STABLE
POSSIBILITY OF HAZARDOUS REACTIONS:
REACTION WITH STRONG OXIDIZERS WILL GENERATE HEAT.
CONDITIONS TO AVOID: NONE KNOWN
INCOMPATIBLE MATERIALS:
AVOID STRONG BASES AT HIGH TEMPERATURES, STRONG ACIDS, STRONG OXIDIZING AGENTS, AND MATERIALS REACTIVE WITH HYDROXYL COMPOUNDS.
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE.

11. TOXICOLOGICAL INFORMATION Δ_{top}

POTENTIAL HEALTH EFFECTS:

ACUTE HAZARDS:

INHALATION:

MAY CAUSE IRRITATION OF THE NOSE AND THROAT WITH HEADACHE, PARTICULARLY FROM MISTS. HIGH VAPOR CONCENTRATIONS CAUSED, FOR EXAMPLE, BY HEATING THE MATERIAL IN AN ENCLOSED AND POORLY VENTILATED WORKPLACE, MAY PRODUCE NAUSEA, VOMITING, HEADACHE, DIZZINESS AND IRREGULAR EYE MOVEMENTS.

SKIN CONTACT: NO EVIDENCE OF ADVERSE EFFECTS FROM AVAILABLE INFORMATION.

EYE CONTACT:

LIQUID, VAPORS OR MIST MAY CAUSE DISCOMFORT IN THE EYE WITH PERSISTENT CONJUNCTIVITIS, SEEN AS SLIGHT EXCESS REDNESS OR CONJUNCTIVA. SERIOUS CORNEAL INJURY IS NOT ANTICIPATED.

INGESTION:

MAY CAUSE ABDOMINAL DISCOMFORT OR PAIN, NAUSEA, VOMITING, DIZZINESS, DROWSINESS, MALAISE, BLURRING OF VISION, IRRITABILITY, BACK PAIN, DECREASE IN URINE OUTPUT, KIDNEY FAILURE, AND CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING IRREGULAR EYE MOVEMENTS, CONVULSIONS AND COMA. CARDIAC FAILURE AND PULMONARY EDEMA MAY DEVELOP. SEVERE KIDNEY DAMAGE WHICH MAY BE FATAL MAY FOLLOW THE SWALLOWING OF ETHYLENE GLYCOL. A FEW REPORTS HAVE BEEN PUBLISHED DESCRIBING THE DEVELOPMENT OF WEAKNESS OF THE FACIAL MUSCLES, DIMINISHING HEARING, AND DIFFICULTY WITH SWALLOWING, DURING THE LATE STAGES OF SEVERE POISONING.

CHRONIC EFFECTS:

PROLONGED OR REPEATED INHALATION EXPOSURE MAY PRODUCE SIGNS OF CENTRAL NERVOUS SYSTEM INVOLVEMENT, PARTICULARLY DIZZINESS AND JERKING EYE MOVEMENTS. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE SKIN SENSITIZATION AND AN ASSOCIATED DERMATITIS IN SOME INDIVIDUALS. ETHYLENE GLYCOL HAS BEEN FOUND TO CAUSE BIRTH DEFECTS IN LABORATORY ANIMALS. THE SIGNIFICANCE OF THIS FINDING TO HUMANS HAS NOT BEEN DETERMINED. 2-ETHYL HEXANOIC ACID, SODIUM SALT IS SUSPECTED OF CAUSING DEVELOPMENTAL EFFECTS BASED ON ANIMAL DATA.

CARCINOGENICITY LISTING:

NONE OF THE COMPONENTS OF THESE PRODUCTS IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY IARC, NTP, ACGIH OR OSHA.

ACUTE TOXICITY VALUES:

ETHYLENE GLYCOL:

LD50 ORAL RAT: 4700 MG/KG

LD50 SKIN RABBIT: 9530 MG/KG

DIETHYLENE GLYCOL:

LD50 ORAL RAT: 12,565 MG/KG

LD50 SKIN RABBIT: 11,890 MG/KG

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH:

ETHYLENE GLYCOL HAS BEEN SHOWN TO PRODUCE DOSE-RELATED TERATOGENIC EFFECTS IN RATS AND MICE WHEN GIVEN BY GAVAGE OR IN DRINKING WATER AT HIGH CONCENTRATIONS OR DOSES. ALSO, IN A PRELIMINARY STUDY TO ASSESS THE EFFECTS OF EXPOSURE OF PREGNANT RATS AND MICE TO AEROSOLS AT CONCENTRATIONS 150, 1,000 AND 2,500 MG/M3 FOR 6 HOURS A DAY THROUGHOUT THE PERIOD OF ORGANOGENESIS, TERATOGENIC EFFECTS WERE PRODUCED AT THE HIGHEST CONCENTRATIONS, BUT ONLY IN MICE. THE CONDITIONS OF THESE LATTER EXPERIMENTS DID NOT ALLOW A CONCLUSION AS TO WHETHER THE DEVELOPMENTAL TOXICITY WAS MEDIATED BY INHALATION OF AEROSOL, PERCUTANEOUS ABSORPTION OF ETHYLENE GLYCOL FROM CONTAMINATED SKIN, OR SWALLOWING OF ETHYLENE GLYCOL AS A RESULT OF GROOMING THE WETTED COAT. IN A FURTHER STUDY, COMPARING EFFECTS FROM HIGH AEROSOL CONCENTRATION BY WHOLE-BODY OR NOSE-ONLY EXPOSURE, IT WAS SHOWN THAT NOSE-ONLY EXPOSURE RESULTED IN MATERNAL TOXICITY (1,000 AND 2,500 MG/M3) AND DEVELOPMENTAL TOXICITY IN WITH MINIMAL EVIDENCE OF TERATOGENICITY (2,500 MG/M3). THE NO-EFFECTS CONCENTRATION (BASED ON MATERNAL TOXICITY) WAS 500 MG/M3. IN A FURTHER STUDY IN MICE, NO TERATOGENIC EFFECTS COULD BE PRODUCED WHEN ETHYLENE GLYCOL WAS APPLIED TO THE SKIN OF PREGNANT MICE OVER THE PERIOD OF ORGANOGENESIS. THE ABOVE OBSERVATIONS SUGGEST THAT ETHYLENE GLYCOL IS TO BE REGARDED AS AN ANIMAL TERATOGEN; THERE IS CURRENTLY NO AVAILABLE INFORMATION TO SUGGEST THAT ETHYLENE GLYCOL CAUSED BIRTH DEFECTS IN HUMANS. CUTANEOUS APPLICATION OF ETHYLENE GLYCOL IS INEFFECTIVE IN PRODUCING DEVELOPMENTAL TOXICITY; EXPOSURE TO HIGH AEROSOL CONCENTRATION IS ONLY MINIMALLY EFFECTIVE IN PRODUCING DEVELOPMENTAL TOXICITY; THE MAJOR ROUTE FOR PRODUCING DEVELOPMENTAL TOXICITY IS PERORALLY.

TWO CHRONIC FEEDING STUDIES, USING RATS AND MICE, HAVE NOT PRODUCED ANY EVIDENCE THAT ETHYLENE GLYCOL CAUSES DOSE-RELATED INCREASES IN TUMOR INCIDENCE OR A DIFFERENT PATTERN OF TUMORS COMPARED WITH UNTREATED CONTROLS. THE ABSENCE OF CARCINOGENIC POTENTIAL FOR ETHYLENE GLYCOL HAS BEEN SUPPORTED BY NUMEROUS INVITRO GENOTOXICITY STUDIES SHOWING THAT IT DOES NOT PRODUCE MUTAGENIC OR CLASTOGENIC EFFECTS. THIS PRODUCT CONTAINS LESS THAN 0.3% TOLYTRIAZOLE WHICH HAS DEMONSTRATES MUTAGENIC ACTIVITY IN A BACTERIAL TEST SYSTEM. A CORRELATION HAS BEEN ESTABLISHED BETWEEN MUTAGENIC ACTIVITY AND CARCINOGENIC ACTIVITY FOR MANY CHEMICALS. TOLYTRIAZOLE HAS NOT BEEN IDENTIFIED AS A CARCINOGEN OR PROBABLE CARCINOGEN BY NTP, IARC OR OSHA.

IN A STUDY OF WISTAR RATS, ADVERSE DEVELOPMENTAL RESULTS WERE REPORTED AT A DOSE OF 100 MG / KG OF BODY WEIGHT FOR 2-ETHYL HEXANOIC ACID, SODIUM SALT.

12. ECOLOGICAL INFORMATION Δ_{top}

ECOTOXICITY:

ETHYLENE GLYCOL:

LC50 FATHEAD MINNOW: <10,000 MG/L/96 HR.

EC50 DAPHNIA MAGNA: 100,000 MG/L/48 HR.

BACTERIAL (PSEUDOMONAS PUTIDA): 10,000 MG/L

PROTOZOA (ENTOSIPHON SULCATUM AND URONEMA PARDUCZI; CHATTON-LWOFF):

>10,000 MG/L

ALGAE (MICROCYSTIS AERUGINOSA): 2,000 MG/L

GREEN ALGAE (SCENEDESMUS QUANDRICAUDA): >10,000 MG/L

DIETHYLENE GLYCOL:

LC50 WESTERN MOSQUITOFISH: >32,000 MG/L/96 HR.

PERSISTENCE AND DEGRADABILITY:

ETHYLENE GLYCOL IS READILY BIODEGRADABLE (97-100% IN 2-12 DAYS). DIETHYLENE

GLYCOL IS READILY BIODEGRADABLE (>70% IN 19DAYS).

BIOACCUMULATIVE POTENTIAL:

ETHYLENE GLYCOL:

A BCF OF 10, REPORTED FOR ETHYLENE GLYCOL IN FISH, GOLDEN IDE (LEUCISCUS IDUS MELANOTUS), AFTER 3 DAYS OF EXPOSURE SUGGESTS THE POTENTIAL FOR BIO CONCENTRATION IN AQUATIC ORGANISMS IS LOW.

DIETHYLENE GLYCOL:

AN ESTIMATED BCF OF 3 SUGGESTS THE POTENTIAL FOR BIO CONCENTRATION IN AQUATIC ORGANISMS IS LOW.

MOBILITY IN SOIL:

ETHYLENE GLYCOL AND DIETHYLENE GLYCOL ARE HIGHLY MOBILE IN SOIL.

OTHER ADVERSE EFFECTS: NONE KNOWN

13. DISPOSAL CONSIDERATIONS Δ_{top}

DISPOSE OF PRODUCT IN ACCORDANCE WITH ALL LOCAL, STATE/PROVINCIAL AND FEDERAL REGULATIONS.

14. TRANSPORT INFORMATION Δ_{top}

U.S. DOT HAZARD CLASSIFICATION:

NOT REGULATED (UNLESS PACKAGE CONTAINS A REPORTABLE QUANTITY)

NOTE:

IF A SHIPMENT OF A REPORTABLE QUANTITY (5,260 LBS/553 GAL.) IN A SINGLE PACKAGE IS INVOLVED, THE FOLLOWING INFORMATION APPLIES:

PROPER SHIPPING NAME:

RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETHYLENE GLYCOL)

UN NUMBER: UN3082

PACKING GROUP: III

LABELS REQUIRED:

CLASS: 9

DOT MARINE POLLUTANTS:

THIS PRODUCT DOES NOT CONTAIN MARINE POLLUTANTS AS DEFINED IN 49 CFR 171.8.

IMDG CODE SHIPPING CLASSIFICATION: NOT REGULATED

CANADIAN TDG CLASSIFICATION: NOT REGULATED

15. REGULATORY INFORMATION Δ_{top}

EPA SARA 311/312 HAZARD CLASSIFICATION: ACUTE HEALTH, CHRONIC HEALTH

EPA SARA 313:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO ANNUAL RELEASE REPORTING REQUIREMENTS UNDER SARA TITLE III, SECTION 313 (40 CFR 372):

ETHYLENE GLYCOL 107-21-1 75-95%

PROTECTION OF STRATOSPHERIC OZONE:

THIS PRODUCT IS NOT KNOWN TO CONTAIN OR TO HAVE BEEN MANUFACTURED WITH OZONE DEPLETING SUBSTANCES AS DEFINED IN 40 CFR PART 82, APPENDIX A TO SUBPART A.

CERCLA SECTION 103:

SPILLS OF THIS PRODUCT OVER THE RQ (REPORTABLE QUANTITY) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER. THE RQ FOR THIS PRODUCT, BASED ON THE RQ FOR ETHYLENE GLYCOL (95% MAXIMUM) OF 5,000 LBS, IS 5,260 LBS. MANY STATES HAVE MORE STRINGENT RELEASE REPORTING REQUIREMENTS. REPORT SPILLS REQUIRED UNDER FEDERAL, STATE AND LOCAL REGULATIONS.

CALIFORNIA PROPOSITION 65:

THE NORMAL CONSUMER USE OF THIS PRODUCT DOES NOT RESULT IN EXPOSURES TO CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE HARM ABOVE THE SIGNIFICANT RISK LEVEL FOR CARCINOGENS OR THE MAXIMUM ALLOWABLE DOSE LEVELS FOR REPRODUCTIVE TOXINS. THEREFORE, NO WARNINGS ARE REQUIRED FOR CONSUMER PACKAGES. INDUSTRIAL OR OTHER OCCUPATIONAL USE OF THIS PRODUCT AT HIGHER FREQUENCY AND USING LARGER QUANTITIES OF THIS PRODUCT MAY RESULT IN EXPOSURES EXCEEDING THESE LEVELS

AND ARE LABELED ACCORDINGLY.

EPA TSCA INVENTORY:

ALL OF THE COMPONENTS OF THIS MATERIAL ARE LISTED ON THE TOXIC SUBSTANCES CONTROL ACT (TSCA) CHEMICAL SUBSTANCES INVENTORY.

CANADIAN ENVIRONMENTAL PROTECTION ACT:

ALL OF THE INGREDIENTS ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST.

CANADIAN WHMIS CLASSIFICATION:

CLASS D - DIVISION 2 - SUBDIVISION A - (A VERY TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS)

CANADIAN WHMIS HAZARD SYMBOLS:

D2 - MATERIALS CAUSING OTHER TOXIC EFFECTS

THIS SDS HAS BEEN PREPARED ACCORDING TO THE CRITERIA OF THE CONTROLLED PRODUCTS REGULATION (CPR) AND THE SDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS):

ALL OF THE INGREDIENTS ARE LISTED ON THE EINECS INVENTORY.

JAPAN:

ALL OF THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE JAPANESE EXISTING AND NEW CHEMICAL SUBSTANCES (MITI) LIST.

AUSTRALIA:

ALL OF THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES.

KOREA:

ALL OF THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE KOREAN EXISTING CHEMICAL LIST (KECL).

PHILIPPINES:

ALL OF THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE PHILIPPINE INVENTORY OF CHEMICAL AND CHEMICAL SUBSTANCE (PICCS)

CHINA:

ALL OF THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE INVENTORY OF EXISTING CHEMICAL SUBSTANCE IN CHINA (IECSC).

16. OTHER INFORMATION _{top}

NFPA RATING (NFPA 704):

FIRE 1

HEALTH 2

INSTABILITY 0

REVISION SUMMARY:

ALL SECTIONS - SECTION 1: ADDITION OF FORMULA AND PRODUCT NUMBERS. SECTION 9: CHANGES TO PHYSICAL DATA RANGES.

SDS DATE OF PREPARATION/REVISION: APRIL 16, 2016

THIS SDS IS DIRECTED TO PROFESSIONAL USERS AND BULK HANDLERS OF THE PRODUCT. CONSUMER PRODUCTS ARE LABELED IN ACCORDANCE WITH FEDERAL HAZARDOUS SUBSTANCES ACT REGULATIONS.

WHILE PRESTONE PRODUCTS CORPORATION BELIEVES THAT THE DATA CONTAINED HEREIN ARE FACTUAL AND THE OPINIONS EXPRESSED ARE THOSE OF QUALIFIED EXPERTS REGARDING THE RESULTS OF THE TESTS CONDUCTED, THE DATA ARE NOT TO BE TAKEN AS A WARRANTY OR REPRESENTATION FOR WHICH PRESTONE PRODUCTS CORPORATION ASSUMES LEGAL RESPONSIBILITY. THEY ARE OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION AND VERIFICATION. ANY USE OF THESE DATA AND INFORMATION MUST BE DETERMINED BY THE USER TO BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

IF MORE INFORMATION IS NEEDED, PLEASE CONTACT:

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