

Material Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR
1910.1200

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : PrimaTech Diesel Exhaust Fluid
Uses : Stabilized urea premix for use in reducing nitrogen oxides in diesel engines.

Manufacturer / Supplier : Smitty's Supply, Inc
PO Box 530
Roseland, LA 70456
USA

MSDS Request : 985-748-9687

Emergency Telephone Number : 800-424-9300 – toll free in the U.S., Canada, and U.S.
CHEMTREC Virgin Islands.
(Collect calls accepted) 703-527-3887 – for calls originating elsewhere.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	ACGIH TLV		OSHA PEL	
			TWA	STEL	PEL	STEL
Urea	57-13-6	30.00 – 35.00	10mg/m ³ (AIHA WEEL)	N/Av	N/Av	N/Av

3. HAZARDS IDENTIFICATION**Emergency Overview**

Clear, colourless liquid. Ammonia odour.
May be harmful if swallowed.
May cause nausea, vomiting, headache and other central nervous system effects.
May be mildly irritating to eyes and skin.

Potential Health Effects

Target Organs : Eyes, skin and digestive system.
Routes of exposure : Inhalation: YES Skin Absorption: NO Skin & Eyes: YES
Ingestion: YES

Signs and Symptoms of Short-Term (acute) exposure

Inhalation: May cause irritation to the nose, throat and upper respiratory tract. In high concentrations, symptoms may include sore throat, sneezing, coughing and shortness of breath.

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1910.1200**Skin:** May cause mild skin irritation on prolonged contact.**Eyes:** May cause temporary irritation.**Ingestion:** May be harmful if swallowed. May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.**Effects of long-term (chronic) exposure:** None known or reported by the manufacturer.**Conditions aggravated by overexposure:** None known**Carcinogenic status:** See TOXICOLOGICAL INFORMATION, Section 11.**Additional health hazards:** See TOXICOLOGICAL INFORMATION, Section 11.**Potential environmental effects:** See ECOLOGICAL INFORMATION, Section 12.

4. FIRST AID MEASURES**Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Obtain medical attention if symptoms develop and persist.**Skin Contact** : Remove contaminated clothing. Wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.**Eye Contact** : Flush with plenty of water. If irritation persists, seek prompt medical attention.**Ingestion** : Do NOT induce vomiting. Consult a physician if necessary. Never give anything by mouth to an unconscious person.**Notes For Physician** : Treat symptomatically.

5. FIRE FIGHTING MEASURES**Fire hazards/conditions of flammability**

Not flammable under normal conditions of handling. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.1200)

Non-flammable.

Flash Point	: N/Ap	Auto-ignition temperature	: N/Av
Flash Point Method	: COC	Upper flammable limit (% by vol.)	: N/Av
Lower flammable limit (% by vol.)	: N/Av	Flashback observed	: N/Ap
Oxidizing properties	: None Known.		
Flame Projection Length	: N/Ap		

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Explosion Data: Sensitivity to mechanical impact / static discharge.

Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media:

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Special fire-fighting procedures/equipment:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

Hazardous combustion products

Carbon oxides, nitrogen oxides, ammonia, biuret, cyanuric acid and other irritating fumes and smoke.

**NFPA Rating (Health,
Fire, Reactivity)**

: 1, 0, 0

Special Hazards

: None

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. For personal protection see Section 8.

Environmental Precautions

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Spill response/cleanup

Ventilate area of release. Stop spill or leak at source if safely possible. Contain and absorb spilled material with inert, non-combustible absorbent material, such as sand. Shovel into suitable container for disposal. Refer to Section 13 for disposal of contaminated material. Notify the appropriate authorities as required.

Prohibited Materials

None known.

Special Spill Response Procedures

In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002). US CERCLA Reportable quantity (RQ): None reported.

7. HANDLING AND STORAGE

Safe Handling Procedures

Wear suitable protective equipment during handling. Use with adequate ventilation. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Keep away from extreme heat and flame. Avoid contact with strong oxidizing agents. Use caution when opening cap. Keep containers tightly closed when not in use.

Storage requirements

Store in a cool, dry, well-ventilated area. Keep away from incompatibles. Inspect periodically for damage or leaks. No smoking in the area. Do not freeze.

Incompatible materials

Strong acids and oxidizing agents.

Special packaging materials

Not Available.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and Engineering Measures

Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory Protection

None required under normal conditions. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Seek advice from respiratory protection specialists.

Skin Protection

Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

Eye / Face Protection

If splashing might occur, wear eye protection such as safety glasses with side shields.

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1910.1200**Other Protective Equipment**

Emergency showers and eyewash facilities should be nearby. Other equipment may be required depending on workplace standards.

General Hygiene Considerations

Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. When using, do not eat or drink. When using, do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

Permissible Exposure Levels

For individual ingredient exposure levels, see Section 2.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Odour: Ammoniacal.

pH: 9.5

Boiling Point: N/Av

Melting / Freezing Point: N/Av

Vapour pressure (mmHg @ 20 C / 68 F): N/Av

Vapour Density (Air = 1): N/Av

Volatile Organic Compounds (VOC's): N/Av

Appearance: Clear, colourless liquid.

Odour Threshold: N/Av

Specific Gravity: 1.094 @ 25°C / 77°F

Coefficient of Water/Oil Distribution: N/Av

Solubility in Water: Complete

Evaporation Rate (n-Butyl acetate = 1): N/Av

Volatiles (% by weight): N/Av

10. REACTIVITY AND STABILITY DATA

Stability and Reactivity: Stable under the recommended storage and handling conditions prescribed.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid excessive heat, sparks and open flame.

Materials to Avoid and Incompatibility: Incompatible materials (see Section 7).

Hazardous Decomposition Products: None known, refer to hazardous combustion products in Section 5.

11. TOXICOLOGICAL INFORMATION

<u>Ingredients</u>	<u>LC₅₀ (4 HR)</u> <u>Inh, rat</u>	<u>LD₅₀</u>	
		<u>Oral</u>	<u>Dermal</u>
Urea	N/Av	8471 mg/kg (rat)	8200 mg/kg (rabbit)

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Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Carcinogenic status : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects : None known.

Teratogenicity : None known.

Mutagenicity : None known.

Epidemiology : Not available.

Sensitization to material : None known.

Synergistic materials : Not available.

Irritancy : May be mildly irritating to eyes and skin.

Other important hazards : None known.

12. ECOLOGICAL INFORMATION

Environmental Effects

The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Important Environmental Characteristics

Not Available.

Ecotoxicological

No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Handling for Disposal

Handle waste according to recommendations in Section 7.

Methods of Disposal

Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA

If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal or unused or waste material, check with local, state and federal environmental agencies.

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14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group
49CFR / DOT	None	Not Regulated	Not Regulated	None
TDG	None	Not Regulated	Not Regulated	None
ICAO / IATA	None	Not Regulated	Not Regulated	None
IMDG	None	Not Regulated	Not Regulated	None

15. REGULATORY INFORMATION**US Federal Information:**

OSHA: This material is not classified as hazardous under OSHA regulations (29 CFR Part 1910.1200).

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): There are no ingredients present above reportable levels, which have reportable quantities.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: No hazards resulting from the material as supplied. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above the minimum concentrations.

US State Right to Know Laws:

New Jersey Labeling Requirements: This product contains the following substances required to be disclosed on product labeling: Water (CAS # 7732-18-5, >60%); Urea (CAS # 57-13-6, 32%); Ammonia (CAS # 7664-41-7, <0.3%); Biuret (CAS # Unknown, <0.3%); Carbonate (CAS # Unknown, <0.3%); formaldehyde (CAS # 50-00-0, <0.01%). Ammonia is considered a hazardous substance in the State of New Jersey.

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California Proposition 65: This product contains a chemical known to the State of California to cause cancer. This product contains: formaldehyde; chromium; Nickel. These chemicals are present at less than 0.1%.

International Information:

Canadian WHMIS Classification: This product is not a WHMIS controlled product in Canada.

Canadian Environmental Protection Act (CEPA) Information: All ingredients listed appear on the Domestic Substances List (DSL).

16. OTHER INFORMATION

**HMIS RATING (HEALTH,
FIRE, REACTIVITY)** : 1, 0, 0

MSDS Version Number : 2.0

MSDS Effective Date : 10/21/2011

MSDS Revisions : A vertical bar (I) in the left margin indicates an amendment from the previous version.

MSDS Regulation : The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

MSDS Distribution : The information in this document should be made available to all who may handle the product.

Disclaimer : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.