

Material Safety Data Sheet

Revision Issued: 6/17/2010 Supercedes: 6/17/2010 First Issued: 6/17/2010

Section I - Chemical Product And Company Identification

Product Name: ECO-DEF (Diesel Exhaust Fluid)

Premium Grade urea solution 32.5%

CAS Number: N/A

HBCC MSDS No. CU02700



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Section II - Composition / Information on Ingredients

Chemical Name	CAS Number	%	Exposure Limits (TWAs) in Air		
			ACGIH TLV	OSHA PEL	STEL
Urea	57-13-6	32-33	N/A	N/A	N/A
Water	7732-18-5	67-68	N/A	N/A	N/A

Section III - Hazard Identification

Routes of Exposure: Dermal; Eyes; Ingestion; Inhalation

Summary of Acute Health Hazards

Ingestion: No harmful effects reported on ingestion.

Inhalation: A very low degree of toxicity by inhalation

Skin: May cause mild irritation to the, skin. No known harmful effects from absorption by the skin.

Eyes: May cause mild irritation to the eyes including redness, stinging, or watering.

Summary of Chronic Health Hazards: None known.

Signs and Symptoms of Exposure: See above.

Effects of Overexposure: Urea is an implied endogenous product of mammalian metabolism. 20-35 grams of urea are secreted daily by humans through the urine.

Medical Conditions Generally Aggravated by Exposure: None known.

Section IV - First Aid Measures

Ingestion: Do not induce vomiting. Give large quantities of water. Normally no first aid required.

Inhalation: Move to fresh air. If not breathing clear airway, give artificial respiration. If problem continues, take to a physician.

Skin: Remove contaminated clothing and shoes. Flush skin with plenty of water. Wash affected areas with soap and water. If redness and irritation persists, consult a physician.

Eyes: Flush immediately with large amount of water for 15 minutes. If irritation persists, take to physician for medical attention.

Section V - Fire Fighting Measures

Flash Point: Non Flammable **Autoignition Temperature:** N/A

Lower Explosive Limit: N/A **Upper Explosive Limit:** N/A

Unusual Fire and Explosion Hazards: N/A:

Extinguishing Media: Use extinguishing media required for type of surrounding fire. Carbon Dioxide, Dry Chemical, Foam or Water fog.

Special Firefighting Procedures: Will not burn. **VOC:** Zero g/L:

Section VI - Accidental Release Measures

Contain spill with a dike or absorbent materials.

This product is 93-98% biodegradable in 24 hours.

Section VII - Handling and Storage

Keep containers closed when not in use. Store above 5°C, 41°F

Keep away from strong oxidizers. Store in cool, dry, and well ventilated area.

Avoid breathing mist. Do not get in eyes, skin, or clothing. Wash thoroughly after handling.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: Not usually required. If a significant spray or mist occurs, wear (MSHA/NIOSH) approved type respirator.

Ventilation: Standard exhaust ventilation to keep mist levels below 15mg/m³ in 8 hrs.

Protective Clothing: Wear protective gloves, splash goggles, and rubber gloves recommended.

Eye Protection: Safety goggles.

Work/Hygienic Practices: Always Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Section IX - Physical and Chemical Properties

Physical State: Liquid **pH:** 7.5-9.5@68°F

Freezing Point/Range: -11.1°C,12°F **Boiling Point/Range:** >100°C; 212°F

Appearance/Color/Odor: Colorless/Clear,/Odorless to slight ammonia .

Solubility in Water: 100% **Vapor Pressure(mmHg):** N/A

Specific Gravity(Water=1): 1.09 **Vapor Density(Air=1):** 0.6

Evaporation Rate (n-BuAc=1): <1 **% Volatile by Volume:** 73.6

How to detect this compound : N/A **VOC:** ~Zero.

Section X - Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid: Temperatures below 5°C,41°F

Materials to Avoid: Strong Oxidizers: Bleach, Ammonia

Hazardous Decomposition Products: Oxides of carbon and nitrogen.

Section XI - Toxicological Information

N/A

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations. This product is not considered a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. It should be solidified using sand, fly ash, absorbent clay, or kitty litter and the solid material disposed of as industrial waste..

Section XIV - Transport Information

DOT Proper Shipping Name: N/A

DOT Hazard Class/ I.D.: Not Classified as Hazardous

Section XV - Regulatory Information

This product does not contain products that may cause cancer.

Reportable Quantity: N/A

NFPA Rating: Health - 1; Flammability - 0; Instability - 0

Carcinogenicity Lists:

NTP: No

IARC Monograph: No

OSHA Regulated: No

Section XVI - Other Information

Synonyms/Common Names: Premium Grade Urea Solution in water.

Chemical Family/Type: Carbamide/Antiseptic

Section changed since last revision: First Issue

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, [Hill Brothers Chemical Company](#) makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.