

# Material Safety Data Sheet

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## 1. Product and Company Identification

Product Identity: Diesel Exhaust Fluid Chemical Formula: Mixture Molecular Weight:		<b>Technical Information: 270-830-1200</b> <b>Emergency Number: 800-424-9300</b> <b>(CHEMTREC)</b> <b>Emergency Number: 703-5273887</b> <b>(International)</b>	
Synonyms: Diesel Exhaust NOx Reducing Agent			
Company: DISTRIBUTED BY BRENNTAG			
Brenntag Great Lakes, LLC. 4420 N. Harley Davidson Ave. Wauwatosa, WI 53225	Brenntag Mid-South, Inc. 1405 Hwy 136 W Henderson, KY 42420	Brenntag Northeast, Inc. 81 West Huller Lane Reading, PA 19605	Brenntag Specialties, Inc. 1000 Coolidge Street South Plainfield, NJ 07080
Brenntag Southeast, Inc. 2000 East Pettigrew Street Durham, NC 27703	Brenntag Southwest, Inc. 610 Fisher Road Longview, TX 75604	Brenntag Pacific, Inc. 10747 Patterson Place Santa Fe Springs, CA 90670	Coastal Chemical Co., LLC PO Box 820 Abbeville, LA 70511

## 2. Hazards Identification

### Emergency Overview

#### WARNING!

Irritant!

**Causes Irritation to Eyes, Skin, digestive tract and Respiratory System.**  
The toxicological properties of this substance have not been fully investigated.

### Potential Health Effects

**Inhalation:** May cause Irritation to the respiratory tract.

**Ingestion:** The product may cause irritation to the digestive tract.

**Skin Contact:** May cause skin irritation if in contact with the skin.

**Eye Contact:** Contact may cause eye irritation.

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**Chronic Systemic Effects:** No information found.

**Aggravation of Pre-existing Conditions:** No information found.

### 3. Composition/Information on Ingredients

CAS#	Chemical Name	Percent by Weight
57-13-6	Urea	32.5%
7732-18-5	Water	67.5%
108-19-0	Biuret	

### 4. First Aid Measures

**Inhalation:** If a person breathes in chemical mist, remove exposed person promptly to fresh air. If breathing has stopped, perform artificial respiration. Oxygen should be provided for a person having difficulty breathing (but only administered by an authorized individual) until the person is able to breathe easily by themselves. Keep the affected person warm and at rest. Get medical attention as soon as possible.

**Ingestion:** If conscious and any amount was swallowed, rinse mouth out with water and give the exposed person one to two glasses of water to drink. Do not induce vomiting. A physician should be contacted immediately.

**Skin Contact:** Promptly wash the contaminated skin using soap or mild detergent and water. If chemical, or solution containing chemical, soaks through clothing, remove the clothing promptly and wash the skin using soap or mild detergent and water for 15 minutes. Medical attention should be given as soon as possible for all exposures, regardless of how minor they seem.

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**Eye Contact:** Flush eyes with large amounts of water for 15 minutes, lifting the upper and lower lids at periodic intervals to insure contact of water with all accessible tissue of the eyes and lids. Medical attention should be given as soon as possible, preferably an eye specialist.

## 5. Fire Fighting Measures

**Fire:** This product is not flammable.

**Explosion:** Not considered to be an explosion hazard.

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire. Water, carbon dioxide, foam or powder may be used for extinguishing media.

**Special Considerations:** Firefighters should avoid all bodily contact; wear full protective clothing and self-contained breathing apparatus in the positive pressure mode. Residue may burn in the presence of a strong ignition source after the water has evaporated. May emit toxic oxide fumes under fire conditions.

## 6. Accidental Release Measures

Evacuate area. Ventilate area of leak or spill. Wear appropriate personal protective equipment and self-contained breathing apparatus. Dike and contain spill. Small amounts may be absorbed using inert material. Pick up and place in a suitable container for reclamation or disposal. Comply with all applicable governmental regulations on spill reporting and handling and disposal of waste.

## 7. Handling and Storage

Keep containers tightly closed. Protect against physical damage. Store in a dry, well ventilated area. Isolate from incompatible substances. Contact with aluminum parts in a pressurized fluid system may cause violent reactions. Consult equipment supplier for further information. Use only with adequate ventilation. Protective clothing should always be worn. Avoid contact with eyes, skin, and clothing. Keep container closed when not in use. Avoid breathing dust or mist. Do not get on skin, clothing, or in eyes. Wash off with water. Do not take internally. Transfer and fill area should have a safety shower and eye wash.

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## 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:** -OSHA Permissible Exposure Limit (PEL): None established.

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, a Manual of Recommended Practices*, most recent edition, for details. For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:** Protective gloves (Butyl, Nitrile, Viton) should be worn. Protective clothing should be worn in presence to prevent contact with skin (coveralls, boots, etc.).

**Eye Protection:** Splash-proof goggles should be worn when there is danger of material mist or material splash from solution containing chemical. Protection against splash or mist from solution containing chemical with 8-inch minimum face shield is recommended. Eye protection should be worn in presence of solution containing chemical, at all times. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

Appearance:	Clear, colorless liquid
Odor:	Ammonia odor
Physical State:	Liquid
PH of water solutions:	N/A
Melting Point:	N/A
Boiling Point:	> 223 F
Flash Point:	N/A
Upper Explosive Limit:	N/A
Lower Explosive Limit:	N/A
Vapor Pressure:	Water vapor

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Vapor Density: Water vapor  
Specific Gravity: 1.14  
Solubility in Water: Completely Soluble in Water

## 10. Stability and Reactivity

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Heating above 266 F

**Incompatible Materials:** Contact with strong acids and oxidizers.

**Hazardous Decomposition Products:** Oxides and ammonia.

## 11. Toxicological Information

**TOXICITY DATA:** LD50: Urea 11,500 - 13,000 mg/kg mouse; 14,300 - 15,000 mg/kg rat; 510 mg/kg cattle.

### WARNING!

**Irritant!**

**Causes Irritation to Eyes, Skin, digestive tract and Respiratory System.**  
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**Eye Contact:** Contact may cause eye irritation.

**Chronic Systemic Effects:** No information found.

**Aggravation of Pre-existing Conditions:** No information found.

## ***12. Ecological Information***

**ENVIRONMENTAL FATE:** No information found.

**ENVIRONMENTAL TOXICITY:** Ecotoxicity - Freshwater Fish Species Data Urea 57-13-6 96 Hr LC50 Barillius barna: >9100 mg/L Ecotoxicity - Microtox Data Urea 57-13-6 24HrEC50 Daphnia magna straus:>10000mg/L.

This product should not get into water without pretreatment in an adapted, biological sewage system. No other information found.

## ***13. Disposal Considerations***

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## ***14. Transport Information***

### **US DOT (ground)**

Proper Shipping Name: Not regulated  
Hazard Class:  
UN/NA:  
Packing Group:  
Marine Pollutant: No  
RQ Amount:

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## IMDG (water)

Proper Shipping Name: Not regulated for transportation according to **IMDG**  
Hazard Class:  
UN/NA:  
Packing Group:  
Marine Pollutant: No  
RQ Amount:

## 15. Regulatory Information

<u>Name</u>	<u>CAS</u>	<u>TSCA</u>	<u>SARA</u> <u>302</u>	<u>SARA</u> <u>304</u>	<u>SARA</u> <u>313</u>	<u>CERCLA</u>
Urea	57-13-6	Yes	No	No	No	No
Biuret	108-19-0	Yes	No	No	No	No

### California Proposition 65

Not Listed

## 16. Other Information

This MSDS is provided as an information resource only. It should not be taken as a warranty or representation for which Brenntag assumes legal liability. While Brenntag believes the information contained herein is accurate and compiled from sources believed to be reliable, it is the responsibility of the user to investigate and verify its identity. The buyer assumes all responsibility for using and handling the product in accordance with applicable federal, state, and local regulations.

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