J 88863524

OCFIndustries

Eya contact

\$kin contact

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification 38607 Product Namo Diesel Exhaust Fluid CAS II Mixture Product use Diesel Exhaust NOx Reducing Agent Manufacturer CF Industries Sales, LLC 4 Parkway North Deerfield, IL 60015-2590 Phone: 847-405-2400 CHEMTREC 800-424-9300 LEGEND HMIS/NFPA Severe 0 Serlous Moderate 2 Slight Personal Protection Minimai 0 2. Hazards Identification **Emergency Overvlow** CAUTION EYE AND SKIN IRRITANT, Potential short term health effects Routes of exposure Eye, Skin contact, inhalation, ingestion. Eyes May cause Irritation. Skin May cause irritation. Inhalation May be harmful by inhalation. May cause respiratory tract irritation. Ingestion May cause stomach distress, nausea or vomiting. Targol organs Eyes. Skin. Respiratory system. Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin, Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. 3. Composition / Information on Ingredients Ingredient(s) CAS H Percent Water 7732-18-5 67.5 Urea 57-13-6 32.5 4. First Aid Measures First ald procedures

Obtain medical attention if irritation persists.

Irritation persists.

Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Flush with cool water. Wash with soap and water. Obtain medical attention if

Inhalation

If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical

attention. If breathing has stopped, trained personnel should administer CPR

immediately.

Ingestion

Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is

unconscious, or is convaising.

Notes to physician

Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data shent to the doctor in attendance. Avoid contact with eyes and skin. Wear impervious gloves and safety glasses. Keep out of

reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria,

Extinguishing media

Sultable extinguishing media

Treat for surrounding material.

Unsultable extinguishing

linguishing Not available

ntedla

Protection of firefighters

Not available

Specific harards arising from

tho chemical

Not available

Protective equipment

for firefighters

Firefighters should wear full protective clothing including self-contained

breathing apparetus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Oxides of nitrogen, Ammonia.

Explosion data

Sensitivity to mechanical

Impact

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Wear appropriate protective clothing.

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers,

basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Small spills may be

absorbed with non-reactive absorbent and placed in suitable, covered,

labeled containers.

Prevent large spills from entering sewers or waterways. Contact emergency services

and supplier for advice. Never return splits in original containers for re-use.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material.

Storago

Keep out of reach of children. Store in a closed container away from incompatible

materiais.

8. Exposure Controls / Personal Protection **Exposure Untits** Exposure limits ingredient(s) ACGIII-TLV Urea Not established OSHA-PEL Not established Ensure adequate ventilation, especially in confined areas. Use only under good fingineering controls ventilation conditions or with respiratory protection. Personal protective equipment Safety glasses with side shields are recommended if splashing or contact is likely. Eye / lace protection Impervious gloves (Nitrile, Viton, Butyl) are recommended if prolonged or repeated contact is Hand protection likely. As required by employer code. Skin and body protection Where exposure guideline levels may be exceeded, use an approved Respiratory protection MIOSH respirator. Avoid breathing vapors. Handle in accordance with good industrial hygiene General hyglene and safety practice. When using do not eat or drink. Wash hands before breaks considerations and immediately after handling the product. 9. Physical & Chemical Properties Clear. Appearance Colorless Color Hauld form Slight ammonia Odor Liquid Physical state 9.8 - 10.0ρH ·12'C Freezing point 104°C **Bolling** point 9.1 lbs. / USG - 4.13 kg / 3.785L Density 1,087-1.093 @ 20°C Specific gravity 100% Solubility (H2O) 10. Chemical Stability & Reactivity Information Stable under recommended storage conditions. Chemical stability Do not mix with any other chemical or product. Conditions to avoid Acids, Oxidizers, Alkalis, Incompatible materials May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Ammonia. Hazardous decomposition products Hazardous polymerization does not occur. Possibility of hazardous reactions

	11. Toxicological Information
Component analysis - LC50 Ingradient(s)	LC50
Urea	Not available
Component analysis - Oral LD50 ingredient(s)	LDSO
Urea	11,500 - 13,000 mg/kg mouse; 14,300 - 15,000 mg/kg rot; 510 mg/kg cattle.
Effects of acute exposure	The state of the s
Еуе	May cause Irritation.
\$k/n	May cause Initation,
Inhalation	Not available
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.
Autagenicity	Non-hazardous by WHMIS/OSHA criteria.
teproductiva effects	Non-hazardous by WHMIS/OSHA cellerla.
eratogenicity	Non-hazardous by WHMIS/OSHA criteria.
THE COMMENSATION OF THE WAY AND ADDRESS OF THE PROPERTY OF THE	12. Ecolological Information
cotoxicity	Components of this product have been identified as having potential environmental concerns.
Ecotoxicity - Freshwater Fish S	
Urea	57-13-6 96 Hr LC50 Barillius barna: >9100 mg/L
Ecotoxicity - Microtox Data Urea	
nvironmental effects	57-13-6 24HrEC50 Daplinla magna straus:>10000mg/L Not ovaliable
qualic toxicity	Mot available
ersistence / degradability	Not available
	Not available
oaccumulation / accumulation	
loaccumulation / accumulation artition coefficient	· · · · · · · · · · ·
artition coefficient	Not available
	· · · · · · · · · · ·

13. Disposal Considerations

Wasto codes

Not avallable

Disposal Instructions

Review federal, provincial, and local government requirements prior to disposal.

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information regulred by the

Controlled Products Regulations.

US Foderal regulations

The product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

Occupational Salety and Health Administration (OSIIA)

29 CFR 1910.1200 hazardous

chemical

Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Harard catogorles

Immediate flazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No

Section 302 extremely

hazardous substance

Section 311 hazardous

chemical

Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available
Safe Drinking Water Act (SDWA) Not available
Orug Enforcement Agency (OEA) Not available

Food and Drug Administration

(FDA)

Not avallable

WHMIS status

Controlled

WHMIS classification

Class D • Division 2B

WHMIS labeling



State regulations

This product does not contain a chemical known to the State of California to

cause cancer, birth defects or other reproductive harm.

Inventory name

Country(s) or region

Inventory name

On Inventory (yes/no)*

Canada

Domestic Substances List (DSL)

Çanada

Non-Domestic Substances List (NDSL)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

No Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

CF believes the information contained herein is accurate; however, CF makes no guarantees or warrantles with respect to such accuracy and assumes no liability in connection with the use of the information contained herein by any party. The provision of the information contained herein by CF is not intended to be and should not be construed as legal advice or as ensuring compliance by other parties. Judgments as to the sulfability of the information contained herein for the party's own use or purposes are solely the responsibility of that party. Any party handling, transferring, transporting, storing, applying or otherwise using this product should review thoroughly all applicable laws, rules, regulations, standards and good engineering practices. Such thorough review should occur before the party handles, transfers, transports, stores, applies or otherwise uses this product.

Issue date 06-Sept-2013 Effective date 06-Sept-2013 Explry date 06-Sept-2016

Previous Issue date

22-Oct-2012

Prepared by

CF Industries Sales, LLC - 847-405-2400