

Safety Data Sheet

Issue Date: 22-Oct-2012 Revision Date: 26-June-2015 Version 1

1. IDENTIFICATION

Product Identifier

Product Name LUBRIGUARD™ SKYBLUE™ DEF

Other means of identification

SDS # LUB-004

CAS # Mixture

Product Use Diesel Exhaust NOx Reducing Agent

Details of the supplier of the safety data sheet

Supplier Address

Warren Oil Company, LLC 915 E. Jefferson Ave. West Memphis, AR 72301

Emergency Telephone Number

Company Phone Number 1-800-428-9284

Emergency Telephone (24 hr) CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture Classification (GHS-US)

Not classified

Label Elements

GHS-US Labeling No labeling applicable

Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US) No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No) 7732-18-5	67.5	Not classified
Urea	(CAS No) 57-13-6	32.5	Not classified

4. FIRST-AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

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advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical

attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Ingestion: Rinse mouth. DO NOT induce vomiting. Obtain medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Not expected to present a significant hazard under anticipated conditions of normal use.

Inhalation: Prolonged exposure to liquid may cause a mild irritation.

Skin Contact: May cause mild skin irritation.

Eye Contact: Prolonged exposure to liquid may cause a mild irritation. **Ingestion:** Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not available

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Ingestion is likely to be harmful or have adverse effects.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. **Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

Protection During Firefighting: D

Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion

Products:

Oxides of Carbon, Nitrogen, Ammonia

Reference to Other Sections

Refer to Section 9 for flammability properties.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapor, mist, spray). Avoid prolonged contact with eyes, skin and clothing.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Contact competent authorities after a spill.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with

inert material, then place in suitable container.

Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When

When heated to decomposition, emits toxic fumes.

Processed:

Hygiene Measures: Handle in accordance with good industrial hygiene and safe procedures. Wash hands and

other exposed areas with mild soap and water before eating, drinking, or smoking and

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again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool, and well-ventilated place. Keep container closed when not in use.

Keep/Store away from extremely high or low temperatures, incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Alkalis.

Specific End User(s)

Diesel Exhaust NOx Reducing Agent

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No additional information available.

Exposure Controls

Appropriate Engineering

Controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined

areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: In case of splash hazard: safety glasses



Materials for Protective

Not applicable.

Clothing:

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: In case of splash hazard: chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection

should be worn.

Other information: When using, do not eat, drink, or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Liquid

Appearance: Colorless, clear Odor: Slight Ammonia **Odor Threshold:** Not available pH: 9.8 - 10**Evaporation Rate:** Not available **Melting Point:** Not available Freezing Point: -12°C (11°F) **Boiling Point:** 104°C (219°F) Flash Point: Not available **Auto-ignition Temperature:** Not available **Decomposition Temperature:** Not available Flammability (solid, gas): Not available Lower Flammable Limit: Not available **Upper Flammable Limit:** Not available **Vapor Pressure:** Not available Relative Vapor Density at 20°C: Not available

Not available Specific gravity / density: 9.0909 lbs. / USG - 4.13 kg / 3.785L @ 20°C (68°F)

Specific Gravity: 1.087-1.093 @ 20°C (68°F)

Solubility: 100% Partition Coefficient: N-Octanol/ Not available

Water:

Viscosity: Not available

Explosion Data - Sensitivity to

Mechanical Impact:

Explosion Data - Sensitivity to

Static Discharge:

Relative Density:

Not expected to present an explosion hazard due to static discharge.

Not expected to present an explosion hazard due to mechanical impact.

10. STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal condition.

Chemical Stability: Stable under recommended handling and storage conditions (see Section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures. Incompatible materials. **Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers. Alkalis.

Hazardous Decomposition Nitrogen oxides. Irritating fumes. Ammonia. Carbon oxides. (CO, CO₂)

Products:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product **Acute Toxicity:** Not classified LD50 and LC50 Data: Not available Skin Corrosion/Irritation: Not classified pH: 9.8 - 10Respiratory or Skin Sensitization: Not classified **Germ Cell Mutagenicity:** Not classified Teratogenicity: Not classified Carcinogenicity: Not classified **Specific Target Organ Toxicity** Not classified (Single Exposure):

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure to liquid may cause a mild irritation.

Symptoms/Injuries After Skin May cause mild skin irritation.

Contact:

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Symptoms/Injuries After Eye Prolonged exposure to liquid may cause a mild irritation.

Contact:

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)	ater (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg	
Urea (57-13-6)		

LD50 Oral Rat 8471 mg/kg

12. ECOLOGICAL INFORMATION

Toxicity

No additional information available

Urea (57-13-6)	
LC50 Fish 1	16200 – 18300 mg/l (Exposure time: 96 h – Species: Poecilia reticulate)
EC50 Daphnia 1	3910 mg/l (Exposure time: 48 h – Species: Daphnia magna [Static])

Persistence and Degradability

Diesel Exhaust Fluid		
Persistence and Degradability	Not established	
Bioaccumulative Potential		
Diesel Exhaust Fluid		
Bioaccumulative Potential	Not established	
Urea (57-13-6)		
BCF Fish 1	< 10	

-1.59 (at 25°C)

Mobility in Soil Not available

Other Adverse Effects

Log Pow

Other Information: Avoid release to the environment

Other adverse effects Not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

14. TRANSPORT INFORMATION

In Accordance with DOT: Not regulated for transport In Accordance with IMDG: Not regulated for transport In Accordance with IATA: Not regulated for transport In Accordance with TDG: Not regulated for transport

15. REGULATORY INFORMATION

US Federal Regulations

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Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory
Urea (57-13-6)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

US State Regulations

Urea (57-13-6)	a (57-13-6)
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U.S. - Minnesota - Hazardous Substance List

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

Januarian Roganian Programment	
Diesel Exhaust Fluid	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

Water (7732-18-5)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

Urea (57-13-6)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPF) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

NFPA Health Hazard: 1 - Exposure could cause irritation but only

minor residual injury even if not treatment is

given

NFPA Fire Hazard: 0 – Materials that will not burn.

NFPA Reactivity: 0 - Normally stable, even under fire exposure

conditions, and are not reactive with water.

HMIS III Rating

Health: 1 Slight Hazard – Irritation or minor reversible injury possible

Flammability: 0 Minimal Hazard **Physical:** 0 Minimal Hazard

<u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Issue Date:22-Oct-2012Revision Date:27-April-2015Revision Note:New format

End of Safety Data Sheet