

SECTION 1: PRODUCT AND COMPANY INFORMATION

Manufacturer Dennison Lubricants Inc., 111 Rhode Island Road, Lakeville, MA 02347 – www.denlube.com
1-800-564-5142 Toll Free – 1-508-946-0500 Phone – 1-508-946-3400 Fax - info@denlube.com

Trade Name Diesel Exhaust Fluid

Chemical Family: Urea Mixture

Product ID Oilzum Clean Air DEF

24-Hour Emergency Phone Number: CHEMTREC 1-800-565-5142

SECTION 2: HAZARD IDENTIFICATION

Classification: Not classified as hazardous according to 29 CFR 1910.1200 (2012)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS Number | Percentage%(w/w) |
|-----------|------------|------------------|
| Water | 7732-18-5 | 67.5 |
| Urea | 57-13-6 | 32.5 |

SECTION 4: FIRST AID MEASURES

Skin Contact No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, drench area with water for at least 15 minutes. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Eye Contact If in eyes: Flush eyes with water for 15 minutes lifting upper and lower lids occasionally. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Inhalation No specific first aid measures are required. If exposed to excessive levels of material in the air, Move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Ingestion If swallowed seek immediate medical attention. Rinse mouth and do not induce vomiting unless recommended by physician. If spontaneous vomiting occurs, keep head below hips to avoid aspiration (into lungs).

Delayed or Other Symptoms and Health Effects
Not Classified.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

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 of water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Oxides of Carbon, Nitrogen. Ammonia

Safety Data Sheet
Oizlum Clean Air DEF

SECTION 6: ACCIDENTAL RELEASE MEASURES

Refer to Section 8 - Exposure Control and Personal Protection

Protective Measures

Avoid breathing(vapor, mist, spray). Avoid prolonged contact with eyes, skin and clothing, and use appropriate personal protection equipment. Evacuate unnecessary personnel.

Spill Management

Stop leak if safe to do so. Ventilate area. Prevent entry to sewers and public waters. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container.

Notification

Any spill or release to navigable water that causes a visible sheen upon the water must be reported immediately to the National Response Center (800/424-8802), as required by U.S. federal law.

SECTION 7: HANDLING AND STORAGE

Refer to Section 8: Exposure Control and Personal Protection

Precautionary Measures

When heated to decomposition, emits toxic fumes.

General Handling Information

Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco products. Clean contaminated clothing, shoes and protective equipment before reuse. Discard contaminated clothing, shoes or protective equipment if they cannot be thoroughly cleaned.

Container Warnings:

Keep container tightly closed when not in use and during transport. Store in a dry, cool, and well-ventilated place. Keep/store away from extremely high or low temperatures. Keep away from incompatible materials such as Strong acids, strong bases, strong oxidizers, and Alkalis.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Component Water/Urea

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.

Eye and Face Protection

Wear protective eyewear. Do NOT wear contact lenses. Use face shield if splashing is possible.

Skin Protection

Wear chemically resistant protective gloves, and suitable protective clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn

Other Protective Equipment

When using, do not eat, drink, or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Physical State

Appearance: Liquid
Color: Colorless, clear
Odor: Slight ammonia

Important Health, Safety and Environment Info

Boiling Point/Range: ≈219°F/104°C (minimum)
Flash Point : Not Available

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Auto Ignition Temp: Not Available
Lower Flammability Limit (Vol. %): Not Available
Upper Flammability Limit (Vol. %): Not Available
Vapor Pressure (mm): Not Available
Vapor Density (Air= 1) : Not Available
Freezing Point/Melting Point: ≈11°F/-12°C
Solubility (Water): 100%
Specific Gravity: 1.09 (9.0909 lbs./gal.)
Evaporation Rate (Butyl Acetate=1): Not Available
Viscosity: Not Available
pH (as is): 9.8-10

Other Information

Vol. % Volatiles: Not Available

Volatility: Not Available

Note: Physical Data is typical values based on material tested, but may vary based on composition. Values should not be accepted as guaranteed for every lot or as specifications for this product.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Material is stable under normal conditions.

Stability/Incompatibility/ Conditions to Avoid

Avoid oxidizing agents, intense heat, sparks or flame

Hazardous Reactions/Decomposition Products

Nitrogen oxides, Irritating fumes, Ammonia, Carbon oxides(CO, CO2)

Hazardous Polymerization

Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity Estimate: Base Oil:

Not classified

Likely Routes of Exposure

Eyes and skin contact; inhalation of incidental mists or vapors; ingestion.

Acute Effects

May cause mild skin irritation. Ingestion is likely to be harmful or have adverse effects.

Chronic Effects

Prolonged exposure to liquid may cause a mild irritation.

Carcinogenicity

No components of this product are found to be carcinogens by NTP, IARC or OSHA. .

LD 50 Oral Rat(Water) >90000 mg/kg

LD 50 Oral Rat(Urea) 8471 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

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

12.2. Persistence and Degradability

| | |
|--------------------------------------|------------------|
| Diesel Exhaust Fluid | |
| Persistence and Degradability | Not established. |

12.3. Bioaccumulative Potential

| | |
|----------------------------------|------------------|
| Diesel Exhaust Fluid | |
| Bioaccumulative Potential | Not established. |

| | |
|-----------------------|------------------|
| Urea (57-13-6) | |
| BCF Fish 1 | < 10 |
| Log Pow | -1.59 (at 25 °C) |

Safety Data Sheet
Oizlum Clean Air DEF

SECTION 13: DISPOSAL CONSIDERATION

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

SECTION 14: TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not regulated
DOT CLASS: Not regulated
DOT ID NUMBER: Not regulated
TDG CLASSIFICATION: Not regulated
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

SECTION 15: REGULATORY INFORMATION

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

15.2. US State Regulations

Urea (57-13-6)

U.S. - Minnesota - Hazardous Substance List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

15.3. Canadian Regulations

Diesel Exhaust Fluid

| | |
|----------------------|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
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Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

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|----------------------|---|
| 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 |
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SECTION 16: OTHER INFORMATION

NFPA Health Hazard: 1-Exposure could cause irritation but only minor residual injury even if no 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 Health: 1-Slight hazard. Irritation or minor reversible injury possible.

HMIS III Flammability: 0-Minimal hazard.

HMIS III Physical: 0-Minimal hazard.

Notice Dennison Lubricants Inc. believes that the information given herein is accurate. Final determination of suitability of any material is the sole responsibility of the user.