



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: **Road King DEF**
 Product Number: **TDEF32**
 Recommended Use: Diesel Exhaust Fluid

Company Identification

Road King/Superior Lubricants, Inc.
 32 Ward Road
 North Tonawanda, New York, 14120
 1-800-638-1887 (For product information)

Emergency Number:

1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

OSHA/HCS Status: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification(s): Not Classified

Signal Word: No Signal Word

Symbol(s): No Symbol Required

Hazard Statement(s): No known significant effects or critical hazards.

Precautionary Statement(s):

General Precautionary Statement(s):

Keep out of reach of children.

Read label before use.

Wash skin thoroughly after handling.

Prevention Precautionary Statement(s): Not applicable.

Response Precautionary Statement(s): Not applicable.

Storage Precautionary Statement(s): Store in a dry place. Store in a closed container.

Disposal Precautionary Statement(s):

Dispose of contents/containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.

Other Hazards Which Do Not Result In Classification:

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

HAZARD RATING		
	HMIS	NFPA
Health:	1	1
Flammability:	0	0
Reactivity:	0	0
Personal Protection:	B	-

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Listing:

Chemical Name	Amount	CAS Number
Water	67.5	7732-18-5
Urea	32.5	57-13-6

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 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. Obtain medical attention if pain, blinking or redness develops or persists.

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

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 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.

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 heading 8, Exposure Controls and Personal Protection.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and 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 Use(s)

Diesel Exhaust NOx Reducing Agent.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

Material	Source	Type	ppm
Urea	OSHA PEL	Not Established	-
Urea	ACGIH-TLV	Not Established	-

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 Clothing: Not applicable.

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

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
Relative Density:	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/Water:	Not available
Viscosity:	Not available

Explosion Data – Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact.

Explosion Data – Sensitivity to Static Discharge: Not expected to present an explosion hazard due to static discharge.



10. STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

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 Products: Nitrogen oxides. Irritating fumes. Ammonia. Carbon oxides (CO, CO₂).

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

<u>Acute Toxicity:</u>	Not classified
<u>LD50 and LC50 Data:</u>	Not available
<u>Skin Corrosion/Irritation:</u>	Not classified
<u>pH:</u>	9.8 - 10
<u>Serious Eye Damage/Irritation:</u>	Not classified
<u>Respiratory or Skin Sensitization:</u>	Not classified
<u>Germ Cell Mutagenicity:</u>	Not classified
<u>Teratogenicity:</u>	Not classified
<u>Carcinogenicity:</u>	Not classified
<u>Specific Target Organ Toxicity (Repeated Exposure):</u>	Not classified
<u>Reproductive Toxicity:</u>	Not classified
<u>Specific Target Organ Toxicity (Single Exposure):</u>	Not classified
<u>Aspiration Hazard:</u>	Not classified
<u>Symptoms/Injuries After Inhalation:</u>	Prolonged exposure to liquid may cause a mild irritation.
<u>Symptoms/Injuries After Skin Contact:</u>	May cause mild skin irritation.
<u>Symptoms/Injuries After Eye Contact:</u>	Prolonged exposure to liquid may cause a mild irritation.
<u>Symptoms/Injuries After Ingestion:</u>	Ingestion is likely to be harmful or have adverse effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:	Water (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 reticulata)

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 Not established

Urea (57-13-6)

BCF Fish 1: <10

Log Pow -1.59 (at 25 °C)

Mobility in Soil: Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

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. TRANSPORTATION INFORMATION

Product Label: Road King Diesel Exhaust Fluid (DEF)

<u>U.S. DEPARTMENT OF TRANSPORTATION (DOT):</u>	Not Regulated for Transport
<u>TRANSPORTATION OF DANGEROUS GOODS (TDG – CANADA):</u>	Not Regulated for Transport
<u>IATA:</u>	Not Regulated for Transport
<u>IMDG:</u>	Not Regulated for Transport

15. REGULATORY INFORMATION

US Federal Regulations

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

Canadian Regulations

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 (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

Reason For Issue:	Revised
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