



# Gulf PureDEF

## SDS - Safety Data Sheet

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Gulf PureDEF Diesel Exhaust Fluid  
**Other means of identification:** Gulf PureDEF Diesel Exhaust Fluid  
**SDS Number:** 910000  
**CAS Number:** Blend  
**CHEMTREC:** EMERGENCY CONTACT 1-800-424-9300

**Supplier:**  
Nu-Tier Brands, Inc., Tulsa, OK  
Under License from Gulf Oil LP  
TECHNICAL CONTACT NUMBER: 918-550-8026, Ext. 507  
www.gulflubricants.net

### 2. HAZARDS IDENTIFICATION

<b>Classified Hazards</b> This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.	<b>Other Hazards</b> None Known
<b>General Precautionary Statements</b> Keep out of reach of children. Wash skin thoroughly after handling.	Read label before use.

#### Label Elements

No classified hazards

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Concentration
Water	7732-18-5	67.5%
Urea	57-13-6	32.5%

### 4. 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 FIRST AID:** When symptoms occur, go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.  
**SKIN CONTACT FIRST AID:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.  
**EYE CONTACT FIRST AID:** 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 FIRST AID:** Rinse mouth with water. Do NOT induce vomiting. If symptoms develop, 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.

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### 5. FIREFIGHTING MEASURES

**NFPA 704 Hazard Class**

Health: 1      Flammability: 0      Reactivity: 0



0 (Minimal)  
1 (Slight)  
2 (Moderate)  
3 (Serious)  
4 (Severe)

**HMIS**

Health: 1      Flammability: 0      Reactivity: 0

Flash Point (Minimum): N/A

**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**

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Additional Hazards When Processed:**

When heated to decomposition, emits toxic fumes.



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**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**

Chemical Name	ACGIH	OSHA	Other
Urea	Not Established	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 Temp:	Not available
Flammability (solid, gas):	Not available	Lower Flammable Limit:	Not available
Upper Flammable Limit:	Not available	Vapor Pressure:	Not available
Relative Vapor Density @ 20°C:	Not available	Relative Density:	Not available
Solubility:	100%	Viscosity:	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)		
Partition Coefficient:N-Octanol/Water:	Not available		

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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, CO<sub>2</sub>).

### 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 - 10

**Serious Eye Damage/Irritation:** Not classified

**pH:** 9.8 - 10

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

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

**Symptoms/Injuries After Skin Contact:** May cause mild skin irritation.

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

**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):** 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])



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### 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

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 DISPOSAL:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

## 14. TRANSPORTATION INFORMATION

PRODUCT LABEL .....: Gulf PureDEF

D.O.T SHIPPING .....: Not Regulated for Transport.

IMDG.....: Not Regulated for Transport.

IATA.....: Not Regulated for Transport.

TRANSPORT CANADA.....: 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

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Nu-Tier Brands, Inc..

The data on this sheet are related only to the specific material designated herein. Nu-Tier Brands, Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS