

Signature® Diesel Exhaust Fluid Safety Data Sheet



SECTION 1 IDENTIFICATION

Product Name: Signature® DEF

Distributor Information:

Parman Energy Corporation
7101 Cockrill Bend Blvd
Nashville, TN 37209
(800) 727-7920

Product Use: Diesel Exhaust Fluid

Emergency Phone Number:

CHEMTREC: 1-800-424-9300; Outside the US/Canada +1-703-527-3887

SECTION 2 HAZARD(S) IDENTIFICATION

Classification: Not classified

Label Elements: No labeling applicable

Hazards Not Otherwise Classified (HNOC)

Other Information

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

Unknown Acute Toxicity: Not applicable.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not Classified

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

SECTION 4 FIRST-AID MEASURES

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: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Discontinue use

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and obtain medical attention if irritation develops

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 persists.

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

Immediate Symptoms and Effects:

Symptoms: prolonged exposure to liquid may cause mild irritation.

Delayed or other Health Effects: No Information Available

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: 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.

Specific hazards arising from the chemical: Combustible material. This product is not flammable

Hazardous Combustion Products: Carbon oxides (CO and CO₂), Nitrogen oxides (NO_x), Ammonia

Explosion data:

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

Protection for Fire Fighters:

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment & Emergency Procedures:

Personal Protection: Avoid breathing dust, mist, or spray. Avoid prolonged contact with eyes, skin, and clothing.

Environmental Precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters

Methods for Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material (sand, Vermiculite, or other appropriate material), then place in suitable container.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures:

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practices. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. When heated to decomposition, emits toxic fumes.

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Conditions for safe storage, including any incompatibilities:

Storage Conditions: Store in dry, cool and well-ventilate place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, incompatible materials.

Incompatible Products: Strong acids, strong bases, strong oxidizers, strong alkalis

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: No additional information available

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:

Eye/Face Protection: If splashes are likely to occur, wear: Goggles. Eye/Face Protection.

Skin and Body Protection: Wear suitable protective clothing. Wear chemically resistant protective gloves

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

General Hygiene Considerations: When using, do not eat, drink, or smoke.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Colorless

Physical State: Liquid

Odor: Faint odor of ammonia

Odor Threshold: Not available

pH: 9.8 - 10

Vapor Pressure: Not available

Vapor Density (Air = 1): Not available

Initial Boiling Point: 104°C (219°F)

Solubility: 100%

Melting/Freezing Point: Not available

Flash Point: Not available

Specific Gravity: 1.087 – 1.903 @ 20°C (68°F)

Kinematic Viscosity: Not Available

Dynamic Viscosity: Not available

Evaporation Rate: Not available

Decomposition temperature: Not available

Octanol/Water Partition Coefficient: Not available

Flammable Properties: Not available

Flammability (solid, gas): Not available

Auto-ignition temperature: No data available

Explosive Properties: Not available

Oxidizing Properties: Not available

Flammability (Explosive) Limits (% by volume in air): Lower: Not available Upper: Not available

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Other Information:

Softening Point: Not available

VOC Content: Not available

Density: 9.0909 lbs./USG - 4.13 kg / 3.785L @ 20°C (68°F)

Bulk Density: Not available

SECTION 10 STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions

Chemical Stability: Stable under normal conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to Avoid: Extremely high or low temperatures. Incompatible materials.

Incompatibility With Other Materials: Strong acids. Strong bases. Strong oxidizers. Strong alkalis.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Nitrogen oxides (NO_x). Ammonia

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Product Information: No data available

Eye Contact: Avoid contact with eyes. May cause irritation.

Skin Contact: May cause eye/skin irritation. Prolonged skin contact may effect the skin and produce dermatitis

Inhalation: Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion: Do NOT taste or swallow

Chemical Name	Oral LD50	ATE US (oral)	Inhalation LC50
Water (7732-18-5)	>90 ML/KG (Rat)	--	--
Urea (57-13-6)	5000 - 15000 mg/kg	5000,000 mg/kg body weight	Urea dust at 22 mg/m ³ caused mild irritation (species not specified)

Information on toxicological effects:

Symptoms: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization: No information available

Germ Cell Mutagenicity: No information available

Carcinogenicity: No information available

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

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0% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Urea (57-10-6)	
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: No data available.

Bioaccumulation:

UREA (57-13-6)	
BCF fish 1	< 10
Log Pow	-1.59 (at 25° C)

Other adverse effects: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of waste in accordance with local regulations

SECTION 14 TRANSPORT INFORMATION

Department of Transportation (DOT): Not regulated

SECTION 15 REGULATORY INFORMATION

International Inventories:

TSCA: Listed on the United States TSCA (toxic Substances Control Act) inventory

DSL/NDSL: Listed on the Canadian DSL (Domestic Substances List) Uncontrolled product according to WHMIS classification criteria.

EINECS/ELINCS: Listed on the EEC inventory EINECS

ENCS: Listed on the Japanese ENCS inventory

IECSC: Listed on IECSC

KECL: Listed on KECL

PICCS: Listed on the PICCS

AICS: Listed on the AICS

Legend:

TSCA – United States Toxic Substances Control Act Section 8 (b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS – European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS – Japan Existing and New Chemical Substances

IECSC – China Inventory of Existing Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances

PICCS – Philippines Inventory of Chemicals and Chemical Substances

AICS – Australian Inventory of Chemical Substances

U.S. Federal Regulations:

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SECTION 16 OTHER INFORMATION

No other information available

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The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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