

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 09/01/2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Mixture

Product name: Diesel Exhaust Fluid

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

: Solution for NOx reduction in SCR systems

1.3. Details of the supplier of the safety data sheet

Quality DEF Solutions, Inc. 471 South Hwy 16 San Saba, Texas, 76877 - USA Office (325) 372-5786 -

Office (325) 372-5786 - www.qualitydefsolutions.com

1.4. Emergency telephone number

Emergency number

INFOTRAC: (800) 535-5053 For Chemical Emergency – Day or Night

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

No Labeling Applicable

2.3. Other hazards

Exposure may cause skin, eye, and respiratory irritation.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% by wt	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

4.1. Description of 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).

First-aid measures after inhalation

First-aid measures after skin contact

: Assure fresh air breathing. Allow the victim to rest. : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists

First-aid measures after ingestion

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

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4.2. Most important symptoms and effects, both acute and delayed

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

Symptoms/Inhalation: May cause respiratory irritation.

Symptoms/skin contact: May cause skin irritation.

Symptoms/eye contact: May cause eye irritation.

Symptoms/ingestion: May cause gastrointestinal irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Sand.

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

5.2. Special hazards arising from the substance or mixture

Fire Hazard: This product is not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical

fire. Prevent firefighting water from entering the environment.

Protection during firefighting

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Avoid breathing (vapor, mist). Avoid contact with eyes, skin, and clothing.

6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Emergency procedures

: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

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

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. For minor spillages wash down with excess of water. Mop up small spills.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources. Keep container closed when not in use.

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Incompatible products

: Strong bases. Strong acids.

Incompatible materials

: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Diesel Exhaust NOx Reducing Agent.

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective

goggles. Protective clothing.

Hand protection:

Wear protective gloves

Eye protection: Chemical goggles

or safety glasses

Respiratory protection:

Wear appropriate mask





Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state

Color

Colorless

Odor

characteristic ammonia odor

Odor threshold

No data available

pH

9 - 10

Relative evaporation rate (butylacetate=1)

Freezing point

-11 °C (12 °F)

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Boiling point

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> 100 °C (212 °F)

Flash point

Auto-ignition temperature

No data available

No data available

Decomposition temperature

No data available

Flammability (solid, gas)

Vapor pressure

No data available

Not Applicable

Relative vapor density at 20 °C

0.6 H2O, >1

Specific Gravity

Solubility

1.09

Soluble in water.

Water: 100 %

Log Pow

No data available

Log Kow

No data available

Viscosity, kinematic

No data available

Viscosity, dynamic

No data available

Explosive properties

Oxidizing properties

No data available

No data available

Explosive limits

No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions 10.3.

Not established.

Conditions to avoid

No additional information available

Incompatible materials

Strong acids. Strong bases. Strong oxidizers. Alkalis.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Fume.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

urea (57-13-6)	
LD50 oral rat	8,471.00 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	> 3,200.00 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 21,000.00 mg/kg (Rabbit; Literature study)
ATE US (oral)	8,471.00 mg/kg bodyweight

Skin corrosion/irritation

: Not classified pH:

9 - 10

Serious eye damage/irritation

: Not classified pH:

9 - 10

Respiratory or skin sensitization

: Not classified

Germ cell mutagenicity

: Not classified

Carcinogenicity

: Not classified

Reproductive toxicity

: Not classified

Specific target organ toxicity (single exposure)

: Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard

: Not classified

Potential adverse human health effects and

symptoms

: May cause respiratory, skin, eye, and gastrointestinal irritation.

SECTION 12: Ecological information

12.1. Toxicity Ecology – General

12.2. Persistence and degradability

Persistence and degradability	Inherently biodegradable. Hydrolysis in water. Highly mobile in soil.
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12.3. Bioaccumulative potential

urea (57-13-6)		
BCF fish 1	1.00 (BCF; 72 h; Brachydanio rerio)	
BCF other aquatic organisms 1	11,700.00 (BCF)	
Log Pow	< -1.73 (Experimental value; EU Method A.8: Partition Coefficient)	
Bioaccumulative potential	Bioaccumulation: not applicable.	

12.4. Mobility in soil

urea (57-13-6)	
Mobility in soil	Not applicable

12.5. Other adverse effects

Effect on ozone layer

: No additional information available

Effect on global warming

: No known effects from this product. No additional information available

: Avoid release to the environment.

Other information

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose of waste material in accordance with all local, regional, national, territorial and international regulations. As a non-hazardous liquid waste, it should be solidified with stabilizing agents such as sand, fly ash, or clay absorbent, so that no free liquid remains before disposal to an industrial waste landfill.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

ADR

Not regulated Transport by sea

Not regulated

Air transport

Not regulated

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SECTION	N 15:	Kegu	latory	z int	orm	ation	

15.1. US Federal regulations	
Diesel Exhaust Fluid	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
CERCLA RQ	None. This material is not classified as hazardous under U.S. EPA regulations.
SARA Section 302 Threshold Planning Quantity (TPQ)	No extremely hazardous substances are in this product.
SARA Section 311/312 Hazard Classes	Urea. No hazards resulting from the material as supplied.

urea (57-13-6)	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Con	trol Act) inventory

15.2. International regulations

CANADA

Diesel Exhaust Fluid	
WHMIS Classification	This SDS has been prepared according to the criteria of the Hazardous Products Regulations (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR. Applicable GHS information is listed in section 2.2 of this SDS.

EU-Regulations

No additional information available

National regulations

Diesel Exhaust I	Fluid
DSL (Canada): 1	The intentional ingredients of this product are listed
urea (57-13-6)	
	The intentional ingredients of this product are listed): The intentional ingredients of this product are listed

15.3. US State regulations

California Proposition 65 - This product does not contain any substance(s) known to the state of California to cause cancer, developmental toxicity and/or reproductive toxicity

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SECTION 16: Other information

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NFPA health hazard

: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

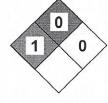
: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and

sand.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire

conditions.



Hazard Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 0 Minimal Hazard - Materials that will not burn

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection B - Safety glasses, Gloves

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