

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 01/01/2024

SECT	ION 4. Identification of the substan	oolmiyturo and of the comp	on v/undorf	oking
<u>3ECT</u>	ION 1: Identification of the substan Product identifier	cermixture and or the comp	any/undert	актту
Product		xture		
Product		ueDEF Diesel Exhaust Fluid		
SDS ID		5065		
1.2.	Relevant identified uses of the substance	•		
Use of t	he substance/mixture : So	olution for NOx reduction in SCR sys	tems	
1.3.	Details of the supplier of the safety data s	heet		
3100 Sa	rld Industries, LLC anders Road			
	ook, IL 60062 - USA 559-2000			
· · ·	dworldind.com			
1.4.	Emergency telephone number			
		0 424 9300 (United States); 00 1 70	3 527 3887 (In	ternational)
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SECT	ION 2: Hazards identification			
2.1.	Classification of the substance or mixture			
		•		
	S classification			
Not clas	sified			
2.2.	Label elements			
GHS-U	S labelling			
Signal v	vord (GHS-US) : No	one		
Hazard	statements (GHS-US) : No	one		
Precaut	ionary statements (GHS-US) : No	one		
2.3.	Other hazards			
	tional information available			
2.4.	Unknown acute toxicity (GHS US)			
	available			
	ION 3: Composition/information on	ingradiante		
	Substances	Ingredients		
3.1.				
Not app				
3.2.	Mixtures			
Name		Product identifier	% by wt	GHS-US classification
water		(CAS-No.) 7732-18-5	67.5 32.5	Not classified Not classified
urea		(CAS-No.) 57-13-6	52.5	1101 0103311100
Full text	of hazard classes and H-statements : see sec	ion 16		
SECT	ION 4: First aid measures			
4.1.	Description of first aid measures			
	I measures general : Ne	ever give anything by mouth to an un vice (show the label where possible)		son. If you feel unwell, seek medical
First-aid		sure fresh air breathing. Allow the vi		

persists.

Suitable extinguishing media : Feam. Dry powder. Carbon dioxide. Sand. Insuitable extinguishing media : Do not use a heavy water stream. Social hazards arising from the substance or mixture Reactivity : No dangerous reactions known under normal conditions of use. S.3. Special protective equipment and precautions for fire-fighters Trefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. SECTION 6: Accidential release measures S.1. Personal precautions, protective equipment and emergency procedures S.1. Personal precautions, protective equipment and emergency procedures S.1. For non-emergency personnel Emergency procedures : The EPA has no established reportable quantity for spills for this material, secondary containment is not specified. S.1.1. For non-emergency personnel S.1.2. For emergency responders "Protective equipment : Equip cleanup crew with proper protection. Emergency procedures : Ventilate area. S.2. Environmental precautions Protective equipment : Equip cleanup crew with proper protection. Emergency procedures S.3. Methods and material for containment and cleaning up Welhods for cleaning up : Soak up spills with inst solds, such as clay or diatomaceous earth as soon as possible. Collect SECTION Y: Handling and storagep 7.1. Precautions for safe handling Precautions for safe handling : Wash hands and other exposed areas with mild scap and water before eating, drinking or smiking and when leaving work. Provide good ventilation in process area to prevent formation or vapor. 7.2. Conditions for safe handling : Wash hands and other exposed areas with mild scap and water before eating, drinking or smiking and when leaving work. Provide good ventilation in process area to prevent formation or vapor. 7.2. Conditions for	First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
3.       Indication of any immediate medical attention and special treatment needed         36.       Attinualishing media         5.1       Extinguishing media         Suitable extinguishing media       : Don to use a heavy water stream.         5.2.       Special heards arising from the substance or mixture         Teaching in the substance or mixture       Is a strength in mixture or mixture         5.3.       Special protective equipment and precautions for fire-fighters         Trienghting instructions       : Use water spray or fog for cooling exposed containers. Exercise caulion when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Tool and in fire gatus       : Do not lowe a heary water fore equipment, including respiratory protection.         Tool and in fire area without proper protective equipment, including respiratory protection.         Tool and in fire area without proper protective equipment, including respiratory protection.         Special protective equipment and emergency procedures         14.1       For on-emergency personnel         15.2.       Environmental proceutions         15.2.       Equipment         16.2.       For emergency procedures         16.2.       Environmental proceutions         17.2.       For emergency procedures         18.3.       Methods and material for containment and cleaning up	.2. Most important symptoms and	effects, both acute and delayed
la additional information available SECTION 55 Firefighting measures SECTION 57 Firefighting media SECTION 57 Firefighting media Sectinguishing media Sectin		
bi additional information available         EECTION 55 Firefighting media         4.         5.         Section being media         2.         Special protective equipment and proceautions for fire-fighters         refighting instructions         2.         Special protective equipment and proceautions for fire-fighters         refighting instructions         2.         Special protective equipment and proceautions for fire-fighters         refighting instructions         2.         Special procective equipment and proceautions for fire-fighters         refighting instructions         2.       Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 61: Accidential reloase measures         3.       The EPA has no established reportable quantity for splils for this material, secondary containment is not specified.         1.1.       For one-mergency presonners         restructive equipment       : E Equip cleanup crew with proper protection.         restructive equipment and cleaning up         restructive exity weaks and public waters. Notify authorities if liquid enters sewers or public waters.         1.1.       For one-mergency presonders         restruction for cleaning up       : Sock up splils with inert solds, such as ally or diato	.3. Indication of any immediate me	dical attention and special treatment needed
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5.1       Extinguishing media       : Foam. Dry powder. Carbon dixide. Sand.         Suitable extinguishing media       : Do not use a heavy water stream.         S2.2       Special hazards arising from the substance or mixture         Reactivy       : No dangerous reactions known under normal conditions of use.         S3.3       Special protoctive equipment and proceutions for fire-fighting intructions of substance or mixture         Reactivy       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting 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       : The EPA has no established reportable quantity for spills for this material, secondary containment is not specified.         S1.1       For non-emergency personnel       : Evacuate unnecessary personnel.         S1.1.5       For emergency responders       : Evalp deanup crew with proper protection.         Emergency procedures       : Venilate area.       : Venilate area.         S2.6       Environmental proceutions       : Venilate area.         S3.6       Methods and material for containment and cleaning up       : Soak up spills with inert solds, such as clay or diatomaceous earth as soon as possible. Collect spillage. Stoos area proceutions         S4.6       Referenc	SECTION 5: Firefighting measure	95
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5.2.       Special hazards arising from the substance or mixture         Reactivity       : No dangerous reactions known under normal conditions of use.         5.3.       Special protective equipment and precautions for fire-fighters         Firefighting instructions       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting 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       : The EPA has no established reportable quantity for spills for this material, secondary containment is not specified.         6:1.       For non-mergency personnel         Emergency procedures       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6:2.       For emergency responders         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6:3.       Methods and material for containment and cleaning up         Protective applies       : Soak up spills with intert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. For minor spillages wash down with excees of water. Mop up small spills.         6:4.       Reference to other sections       : Soak up spills with	Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Sand.
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6.1.       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         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         Precautions 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.         Incompatible materials       : Strong acids. Strong bases.         7.3.       Specific end use(s)         No additional information available         SECTION 7: Handmition available	6.1.1. For non-emergency personnel	
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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.         Incompatible materials       : Strong acids. Strong bases.         7.3.       Specific end use(s)         No additional information available         SECTION 8: Exposure controls/personal protection         8.1.       Control parameters	Methods for cleaning up	spillage. Store away from other materials. For minor spillages wash down with excess of water.
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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.         Incompatible materials       : Strong acids. Strong bases.         7.3.       Specific end use(s)         No additional information available         SECTION 8: Exposure controls/personal protection         8.1.       Control parameters	Precautions for safe handling	smoking and when leaving work. Provide good ventilation in process area to prevent formation
Heat sources. Keep container closed when not in use.         Incompatible materials       : Strong acids. Strong bases.         7.3.       Specific end use(s)         No additional information available         SECTION 8: Exposure controls/personal protection         8.1.       Control parameters	7.2. Conditions for safe storage, inc	luding any incompatibilities
7.3.       Specific end use(s)         No additional information available         SECTION 8: Exposure controls/personal protection         8.1.       Control parameters	-	Heat sources. Keep container closed when not in use.
No additional information available SECTION 8: Exposure controls/personal protection 8.1. Control parameters		: Strong acids. Strong bases.
8.1. Control parameters		
	SECTION 8: Exposure controls/p	ersonal protection
urea (57-13-6)	8.1. Control parameters	
	urea (57-13-6)	

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### water (7732-18-5)

Not applicable

### 8.2. Appropriate engineering controls

#### No additional information available

8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective goggles.

#### 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	
9.1. Information on basic physical and	
Physical state	: Liquid
Color	: Colorless
Odor	: characteristic ammonia odor
Odor threshold	: No data available
рН	: 9-10
Relative evaporation rate (butylacetate=1)	: <1
Freezing point	: -11 °C (12 °F)
Boiling point	: > 100 °C (212 °F)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: Not Applicable
Relative vapor density at 20 °C	: 0.6 H2O, >1
Specific Gravity	: 1.09
Solubility	: 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 limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	
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SECTION 10: Stability and reactivity	
10.1. Reactivity	
No dangerous reactions known under normal con	ditions of use.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Not established.	
10.5. Incompatible materials	
Strong acids. Strong bases. oxidizing agents (per	oxides, chromates, dichromates).
10.6. Hazardous decomposition products	
Carbon monoxide. Carbon dioxide. Fume.	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
-	
urea (57-13-6) LD50 oral rat	14300 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value)
ATE US (oral)	14300 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
	pH: 9 - 10
Serious eye damage/irritation	: Not classified
	pH: 9 - 10
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
SECTION 12: Ecological information	

## **SECTION 12: Ecological information**

12.1. Toxicity	
urea (57-13-6)	
LC50 fish 1	> 6,810.00 mg/l (96 h, Leuciscus idus, Experimental value, Nominal concentration)
EC50 Daphnia 1	> 10,000.00 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)

#### 12.2. Persistence and degradability

urea (57-13-6)	
Persistence and degradability	Readily biodegradable in water.
ThOD	0.27 g O <sub>2</sub> /g substance

#### 12.3. **Bioaccumulative potential** urea (57-13-6) BCF fish 1 1.00 (72 h, Brachydanio rerio, Fresh water, Literature study)

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urea (57-13-6)	
Log Pow	< -1.73 (Experimental value, EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

## 12.4. Mobility in soil

12.4. Mobility in soil	
urea (57-13-6)	
Mobility in soil	Not applicable
Log Koc	-1.431.19 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.
12.5. Other adverse effects	
Effect on the ozone layer	: No additional information available
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: 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

#### **Transportation of Dangerous Goods**

Refer to current TDG Canada for further Canadian regulations

#### ADR

Not regulated

### Transport by sea

In accordance with IMDG / IMO Not regulated

#### Air transport

In accordance with IATA / ICAO Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

BlueDEF 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.

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urea (57-13-6)	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

#### 15.2. International regulations

CANADA	
BlueDEF 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.

### 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

Revision date	: 01/01/2024
Full text of H-statements:	
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire 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.

SDS GHS US (GHS HazCom 2012) OWI

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