Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 05/23/2023 Version: 1.0



SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Trade name	: Rostabil DDPP
Chemical name	: Diisodecyl phenyl phosphite
CAS-No.	: 25550-98-5
	ubstance or mixture and uses advised against
Use of the substance/mixture	: Functional Fluids
1.3. Details of the supplier of the safe	ety data sheet
PCC Chemax, Inc.	
30 Old Augusta Road Piedmont, SC 29673 - USA	
T 1-864-277-7000	
cpatterson@pcc-chemax.com - www.pcc-cl	hemax.com
1.4. Emergency telephone number	
Emergency number	: 1-800-424-9300 (CHEMTREC)
	+1-703-527-3887 Outside the United States
SECTION 2: Hozard(a) identificati	on
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance of	or mixture
GHS US classification	
Skin sensitization, Category 1	H317
Hazardous to the aquatic environment - Ch	ronic Hazard Category 3 H412
Full text of H statements : see section 16	
2.2. Label elements	
GHS US labeling	
•	
	•
Hazard pictograms (GHS US)	
nazaru piciogranis (OPO UO)	
nazaru piciogranis (GPS US)	
nazaru piciogranis (GFS US)	
	GHS07
Signal word (GHS US)	: Warning
	:Warning :H317 - May cause an allergic skin reaction
Signal word (GHS US) Hazard statements (GHS US)	: Warning : H317 - May cause an allergic skin reaction H412 - Harmful to aquatic life with long lasting effects
Signal word (GHS US)	:Warning :H317 - May cause an allergic skin reaction
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2.4. Unknown acute toxicity (GHS US)

SECT	<b>ON 3: Composition/Information</b>	n on ingredients	
3.1.	Substances		
Name		: Diisodecyl phenyl phosphite	
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CAS-No. : 25550	)-98-5		
Name	Product identifier	%	GHS US classification
Phosphorous acid, diisodecyl phenyl ester	(CAS-No.) 25550-98-5	> 99	Skin Sens. 1, H317 Aquatic Chronic 3, H412
Phenol	(CAS-No.) 108-95-2	< 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
	Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects after inhalation	: None under normal use.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: None under normal use.
Symptoms/effects after ingestion	: None under normal use.
4.3. Indication of any immediate medical	attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
OF OTION 3. Thenghing measures	
5.1 Extinguishing modia	
5.1. Extinguishing media	. If there is a first close by use suitable extinguishing agents. Carbon disvide, Dry newder, Feem
Suitable extinguishing media	: If there is a fire close by, use suitable extinguishing agents. Carbon dioxide. Dry powder. Foam. Sand. Water spray.
Jan	
Suitable extinguishing media	<ul><li>Sand. Water spray.</li><li>Do not use a heavy water stream. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion.</li></ul>
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Sand. Water spray.</li><li>Do not use a heavy water stream. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion.</li></ul>
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6.1.2. For emergency res	ponders
Protective equipment	: Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.
6.2. Environmental pred	autions
Avoid release to the environme	ent. Notify authorities if product enters sewers or public waters.
6.3. Methods and mater	ial for containment and cleaning up
For containment	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Methods for cleaning up	<ul> <li>Contain or absorb spilled liquid with non-combustible material. Stop leak if safe to do so.</li> <li>Prevent runoff from entering drains, sewers or waterways.</li> </ul>
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other	sections
For further information refer to considerations".	section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13 : "Disposa
SECTION 7: Handling a	ind storage
7.1. Precautions for safe	e handling
Additional hazards when proc	essed · Avoid contact with skin, eves and clothing

U	
Additional hazards when processed	: Avoid contact with skin, eyes and clothing.
Precautions for safe handling	<ul> <li>Ensure good ventilation of the work station. Use personal protective equipment as required. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, includ	ng any incompatibilities
Storage conditions	: Protect from moisture. Store in dry, cool, well-ventilated area. Store in original container.
Incompatible materials	: Oxidizing agents. Avoid contact of substance with water.
Storage temperature	: 10 – 30 °C
Storage area	: Store, if possible, in a cool, well ventilated place away from incompatible materials.
Special rules on packaging	: Handle unclean empty containers as full ones.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters and occupational exposure limits

Phenol (108-95-2)			
ACGIH	ACGIH OEL TWA [ppm]	5 ppm	
OSHA	OSHA PEL (TWA) [1]	19 mg/m <sup>3</sup>	
OSHA	OSHA PEL (TWA) [2]	5 ppm	
IDLH	IDLH [ppm]	250 ppm	
NIOSH	NIOSH REL (TWA)	19 mg/m <sup>3</sup>	
NIOSH	NIOSH REL TWA [ppm]	5 ppm	
NIOSH	NIOSH REL (Ceiling)	60 mg/m <sup>3</sup>	
NIOSH	NIOSH REL C [ppm]	15.6 ppm	
Phosphorous acid,	diisodecyl phenyl ester (25550-98-5)		
Not applicable			

8.2. Exposure controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation. Avoid all unnecessary exposure.
Hand protection	: Wear suitable gloves resistant to chemical penetration.
Eye protection	: Chemical goggles or safety glasses. Face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear appropriate mask.

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Environmental exposure controls

: Avoid release to the environment.

Environmental exposure controls	: Avoid release to the environment.
<b>SECTION 9: Physical and chemical p</b>	roperties
9.1. Information on basic physical and ch	emical properties
Physical state	: Liquid
Appearance	: Colorless to light yellow liquid.
Color	: Colorless to light yellow
Odor	: characteristic
Odor threshold	: No data available
pH	: 7.16 @ 5% in 50/50 isopropanol/water
Melting point	: <-20 °C
Freezing point	: <-20 °C
Boiling point	: No data available
Flash point	: 167 °C (Closed cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Not applicable.
Vapor pressure	: 0.008 Pa [25°C]
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.95 g/cm <sup>3</sup> [25°C]
Solubility	: insoluble in water. Soluble in acetone. Soluble in chloroform. Water: 0 g/l
Partition coefficient n-octanol/water (Log Pow)	: 9.32 Low potential for absorption in soil
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 14 – 18 mPa·s
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

### **SECTION 10: Stability and reactivity**

10.1.	Reactivity	
The proc	duct hydrozyles in the presence of water. T	hermal decomposition may produce : Carbon oxides (CO, CO2). Phosphorus oxides.
10.2.	Chemical stability	
Stable u	nder recommended handling and storage	conditions (see section 7).
10.3.	Possibility of hazardous reactions	
None un	der normal use.	
10.4.	Conditions to avoid	
Do not a	llow water (or moist air) contact with this n	naterial.
10.5.	Incompatible materials	
Oxidizin	g agent. Water.	
10.6.	Hazardous decomposition products	
	ional information available	
SECTI	ON 11: Toxicological information	on second se
11.1.	Information on toxicological effects	
Likely ı	routes of exposure	: Skin and eye contact
Acute t	oxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)

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: Not classified (Based on available data, the classification criteria are not met)
: Not classified (Based on available data, the classification criteria are not met)
5000 mg/kg
> 2000 mg/kg
11.7 mg/l Exposure time: 1h
340 mg/kg
660 mg/kg
100 mg/kg body weight
660 mg/kg body weight
700 ppmV/4h
3 mg/l/4h
0.5 mg/l/4h
ster (25550-98-5)
> 5000 mg/kg
> 5000 mg/kg
> 11.7 mg/l (Exposure time: 1 h)
: Not classified (Based on available data, the classification criteria are not met)
pH: 7.16 @ 5% in 50/50 isopropanol/water
: Not classified (Based on available data, the classification criteria are not met)
pH: 7.16 @ 5% in 50/50 isopropanol/water
: May cause an allergic skin reaction.
: Not classified (Based on available data, the classification criteria are not met)
: Not classified (Based on available data, the classification criteria are not met)
3 - Not classifiable
: Not classified (Based on available data, the classification criteria are not met)
: Not classified (Based on available data, the classification criteria are not met)
: Not classified (Based on available data, the classification criteria are not met)
: Not classified (Based on available data, the classification criteria are not met)
: None under normal use.
: May cause an allergic skin reaction.
: None under normal use.

# **SECTION 12: Ecological information**

Rostabil DDPP	
Ecology - general	This material has not been tested for environmental effects.
Ecology - water	Testing not technically possible: Substance is highly insoluble in water. The product hydrolyses quickly in the presence of water to: isodecanol and phosphorous acid.
Rostabil DDPP	
EC50 - Crustacea [1]	0.2 mg/l (Exposure time: 48 h - Species: Daphnia magna (Water flea))
NOEC (acute)	> 100 mg/l (Exposure time: 48 h - Species: Leuciscus idus (golden orfe))
Phenol (108-95-2)	
LC50 - Fish [1]	11.9 – 50.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	4.24 – 10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 - Fish [2]	20.5 – 25.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	10.2 – 15.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)

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Phosphorous acid, diisodecyl phenyl ester (2	osphorous acid, diisodecyl phenyl ester (25550-98-5)		
EC50 - Crustacea [1]	0.2 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
12.2. Persistence and degradability			
Rostabil DDPP			
Persistence and degradability	Not established. This product hydrolyses quickly in the presence of water. The materials hydrolysis products are readily biodegradable.		

### 12.3. Bioaccumulative potential

Rostabil DDPP		
Partition coefficient n-octanol/water (Log Pow)	9.32 Low potential for absorption in soil	
Bioaccumulative potential	Not established.	
Phenol (108-95-2)	ol (108-95-2)	
BCF - Fish [1]	(no significant bioaccumulation)	
Partition coefficient n-octanol/water (Log Pow)	1.5	

#### 12.4. Mobility in soil

No additional information available

12.5. Other adverse effects			
Effect on global warming	: Not determined		
Other information	: Avoid release to the environment.		
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Regional legislation (waste)	: Disposal must be done according to official regulations.		
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.		
Additional information	: Clean up even minor leaks or spills if possible without unnecessary risk.		
Ecology - waste materials	: Avoid release to the environment.		

### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

Not regulated for transport

Transport by sea

Not applicable

#### Air transport

Not applicable

SECTION 15: Regulatory information				
15.1. US Federal regulations				
	Rostabil DDPP			
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
	SARA Section 311/312 Hazard Classes	Health hazard - Respiratory or skin sensitization		

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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#### 15.2. International regulations

#### National regulations

#### Rostabil DDPP

- Listed on the Canadian DSL (Domestic Substances List) inventory
- Listed on Australian Inventory of Industrial Chemicals (AIIC)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on TECI (Thailand Existing Chemicals Inventory)

- Listed on the United States TSCA (Toxic Substances Control Act) inventory Status: Active
- Listed on the NCI (National Chemicals Inventory) of Vietnam

#### 15.3. US State regulations

#### Phenol (108-95-2)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Minnesota Hazardous Substance List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

#### **SECTION 16: Other information**

#### Full text of H-phrases:

H301	Toxic if swallowed		
H311	Toxic in contact with skin		
H314	Causes severe skin burns and eye damage		
H317	May cause an allergic skin reaction		
H331	Toxic if inhaled		
H341	Suspected of causing genetic defects		
H373	May cause damage to organs through prolonged or repeated exposure		
H412	Harmful to aquatic life with long lasting effects		

#### SDS US (GHS HazCom 2012) - Custom 2020-01

This information is based on our current knowledge and it is intended to describe the product for the purposes of health, safety, and environmental requirements only. No warranty, as to the accuracy, completeness, or adequacy of the information contained herein is either expressed or implied. Users must determine individually, by testing or otherwise, the suitability of this product for their purposes, including mixing with other products. The revision of the document supersedes all those previously issued for the product.