		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 11.04.2022
		Print Date: 23.06.2022
		SDS Number: 000000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486		Version: 2.0

**Conforms to EU Regulation 1907/2006/EC as amended.**

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

**1.1 Product identifier**

Trade name : Performax™ PM3610  
 COOLING WATER TREATMENT  
 ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries

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

Use of the Substance/Mixture : Industrial chemical

<p><b>1.3 Details of the supplier of the safety data sheet</b>          Solenis          Pesetastraat 62          2991 XT Barendrecht          Netherlands</p> <p>Solenis UK Industries Limited          P. O. Box 38, Cleckheaton Rd, Low Moor,          Bradford, BD12 0JZ,          United Kingdom</p> <p><b>E-mail address of person responsible for the SDS:</b>          EHSProductSafetyTeam@solenis.com</p> <p><b>Product Information</b>          Contact your local Solenis representative</p>	<p><b>1.4 Emergency telephone number</b>          +1-302-502-0991 , or contact your local emergency telephone number at 112</p>
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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**


Not a hazardous substance or mixture.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**Additional Labelling**

		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 11.04.2022
		Print Date: 23.06.2022
		SDS Number: 00000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486		Version: 2.0

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components


Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
2-phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1 253-733-5 01-2119436643-39-XXXX	Met. Corr. 1; H290 Eye Irrit. 2; H319	>= 2,5 - < 5

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.

	Page: 3
<b>SAFETY DATA SHEET</b>	Revision Date: 11.04.2022
	Print Date: 23.06.2022
	SDS Number: 000000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486	Version: 2.0

Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

Symptoms : No symptoms known or expected.

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

Treatment : No hazards which require special first aid measures.

---

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam  
 Carbon dioxide (CO<sub>2</sub>)  
 Dry chemical

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.  
 Hazardous combustion products : Carbon monoxide  
 Carbon dioxide (CO<sub>2</sub>)  
 Oxides of phosphorus  
 Sodium oxides

#### 5.3 Advice for firefighters


Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
 Specific extinguishing methods : Product is compatible with standard fire-fighting agents.  
 Further information : Standard procedure for chemical fires.

---

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
 Comply with all applicable federal, state, and local regulations.

		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 11.04.2022
		Print Date: 23.06.2022
		SDS Number: 000000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486		Version: 2.0

## 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No materials to be especially mentioned.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2-phosphonobutane-1,2,4-tricarboxylic	Workers	Inhalation	Long-term systemic effects	15 mg/m <sup>3</sup>

<b>SAFETY DATA SHEET</b>	Revision Date: 11.04.2022
	Print Date: 23.06.2022
	SDS Number: 00000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486	Version: 2.0

acid				
Remarks:	Repeated dose toxicity			
	Workers	Inhalation	Systemic, short-term	158 mg/m3
Remarks:	Acute toxicity			
	Workers	Dermal	Long-term systemic effects	4,2 mg/kg
Remarks:	Repeated dose toxicity			
	Workers	Dermal	Systemic, short-term	80 mg/kg
Remarks:	Acute toxicity			
	General population	Inhalation	Long-term systemic effects	3,7 mg/m3
Remarks:	Repeated dose toxicity			
	General population	Inhalation	Systemic, short-term	79 mg/m3
Remarks:	Acute toxicity			
	General population	Dermal	Long-term systemic effects	2,1 mg/kg
Remarks:	Repeated dose toxicity			
	General population	Dermal	Systemic, short-term	40 mg/kg
Remarks:	Acute toxicity			
	General population	Oral	Long-term systemic effects	2,1 mg/kg
Remarks:	Repeated dose toxicity			
	General population	Oral	Systemic, short-term	65 mg/kg
Remarks:	Acute toxicity			

## 8.2 Exposure controls

### Engineering measures


General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

- Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.
- Skin and body protection : Wear as appropriate:  
Safety shoes
- Respiratory protection : No personal respiratory protective equipment normally required.


## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

	Page: 6
<b>SAFETY DATA SHEET</b>	Revision Date: 11.04.2022
	Print Date: 23.06.2022
	SDS Number: 000000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486	Version: 2.0

Physical state	: liquid
Colour	: light yellow
Odour	: No data available
Odour Threshold	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: Not applicable
Decomposition temperature	
Decomposition temperature	: No data available
pH	: 4,5
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: 1,27 g/cm <sup>3</sup> (20 °C)
Relative vapour density	: No data available

## 9.2 Other information

		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 11.04.2022
		Print Date: 23.06.2022
		SDS Number: 00000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486		Version: 2.0

Oxidizing properties : No data available

Self-ignition : No data available

Evaporation rate : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

### 10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture

### 10.5 Incompatible materials

Materials to avoid : steel  
strong alkalis  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Oxides of phosphorus  
Sodium oxides  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity


Not classified based on available information.

#### Components:

#### 2-phosphonobutane-1,2,4-tricarboxylic acid:

Acute oral toxicity : LD50 (Rat): > 6.500 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 1.979 mg/m<sup>3</sup>  
Exposure time: 4 h  
Test atmosphere: dust/mist

	Page: 8
<b>SAFETY DATA SHEET</b>	Revision Date: 11.04.2022
	Print Date: 23.06.2022
	SDS Number: 000000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486	Version: 2.0

Method: OECD Test Guideline 403

Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 4.000 mg/kg  
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.  
 Remarks: Based on similar product.

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

**2-phosphonobutane-1,2,4-tricarboxylic acid:**

Species : Rabbit  
 Method : OECD Test Guideline 404  
 Result : Not irritating to skin

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks : Unlikely to cause eye irritation or injury.

**Components:**

**2-phosphonobutane-1,2,4-tricarboxylic acid:**

Result : Irritating to eyes

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**


Not classified based on available information.

**Components:**

**2-phosphonobutane-1,2,4-tricarboxylic acid:**

Genotoxicity in vitro : Test Type: Ames test  
 Test system: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative



	Page: 9
<b>SAFETY DATA SHEET</b>	Revision Date: 11.04.2022
	Print Date: 23.06.2022
	SDS Number: 000000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486	Version: 2.0

Test Type: In vitro mammalian cell gene mutation test  
 Test system: Chinese hamster lung cells  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative  
 GLP: yes

Test Type: Chromosome aberration test in vitro  
 Test system: Chinese hamster lung cells  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 473  
 Result: negative  
 GLP: yes

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**11.2 Information on other hazards**

**Endocrine disrupting properties**


**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Further information**

**Product:**

Remarks : No data available

	Page: 10
<b>SAFETY DATA SHEET</b>	Revision Date: 11.04.2022
	Print Date: 23.06.2022
	SDS Number: 000000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486	Version: 2.0


## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **2-phosphonobutane-1,2,4-tricarboxylic acid:**

- Toxicity to fish : (Danio rerio (zebra fish)): > 1.042 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203  
 GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.071 mg/l  
 Exposure time: 48 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 202  
 GLP: yes
- Toxicity to algae/aquatic plants : (Desmodesmus subspicatus (green algae)): 140 mg/l  
 End point: EC 50  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201  
 GLP: yes
- Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
 Exposure time: 3 h  
 Test Type: Static  
 Method: OECD Test Guideline 209  
 GLP: yes
- Toxicity to fish (Chronic toxicity) : NOEC: > 1.042 mg/l  
 Exposure time: 14 d  
 Species: Danio rerio (zebra fish)  
 Test Type: semi-static test  
 Method: OECD Test Guideline 204  
 GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 104 mg/l  
 End point: Reproduction Test  
 Exposure time: 21 d  
 Species: Daphnia (water flea)  
 Test Type: semi-static test  
 Method: OECD Test Guideline 211  
 GLP: yes

	Page: 11
<b>SAFETY DATA SHEET</b>	Revision Date: 11.04.2022
	Print Date: 23.06.2022
	SDS Number: 000000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486	Version: 2.0

## 12.2 Persistence and degradability

### Components:

#### **2-phosphonobutane-1,2,4-tricarboxylic acid:**

Biodegradability : Biodegradation: 0 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301D

Biodegradation: 17 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 302B

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

### Components:

#### **2-phosphonobutane-1,2,4-tricarboxylic acid:**

Partition coefficient: n-octanol/water : log Pow: -1,36 (25 °C)

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological : No data available

**SAFETY DATA SHEET**

Revision Date: 11.04.2022

Print Date: 23.06.2022

SDS Number: 00000267754

Version: 2.0

Performax™ PM3610 COOLING WATER  
TREATMENT  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
873486

information


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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Contaminated packaging : Empty remaining contents.

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**SECTION 14: Transport information****14.1 UN number or ID number****ADR:** Not dangerous goods**ADN:** Not dangerous goods**RID:** Not dangerous goods**IMDG-Code:** Not dangerous goods**IATA-DGR:** Not dangerous goods**14.2 UN proper shipping name****ADR:** Not dangerous goods**ADN:** Not dangerous goods**RID:** Not dangerous goods**IMDG-Code:** Not dangerous goods**IATA-DGR:** Not dangerous goods**14.3 Transport hazard class(es)****ADR:** Not dangerous goods**ADN:** Not dangerous goods**RID:** Not dangerous goods**IMDG-Code:** Not dangerous goods**IATA-DGR:** Not dangerous goods**14.4 Packing group****ADR:** Not dangerous goods**ADN:** Not dangerous goods**RID:** Not dangerous goods**IMDG-Code:** Not dangerous goods**IATA-DGR:** Not dangerous goods**14.5 Environmental hazards**

		Page: 13
<b>SAFETY DATA SHEET</b>		Revision Date: 11.04.2022
		Print Date: 23.06.2022
		SDS Number: 000000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486		Version: 2.0

**ADR:** Not applicable

**ADN:** Not applicable

**RID:** Not applicable

**IMDG-Code:** Not applicable

**IATA-DGR:** Not applicable

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

---

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable


REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 11.04.2022
		Print Date: 23.06.2022
		SDS Number: 000000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486		Version: 2.0

**The components of this product are reported in the following inventories:**

DSL	:	This product contains one or more components that are not on the Canadian DSL and have annual quantity limits.
AICS	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	On TSCA Inventory

**15.2 Chemical safety assessment**

No data available

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**SECTION 16: Other information**

**Further information**

Revision Date: 11.04.2022


**Full text of H-Statements**

H290	:	May be corrosive to metals.
H319	:	Causes serious eye irritation.

**Full text of other abbreviations**

Eye Irrit.	:	Eye irritation
Met. Corr.	:	Corrosive to metals

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and

	Page: 15
<b>SAFETY DATA SHEET</b>	Revision Date: 11.04.2022
	Print Date: 23.06.2022
	SDS Number: 00000267754
Performax™ PM3610 COOLING WATER TREATMENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 873486	Version: 2.0

Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

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