# **SAFETY DATA SHEET**



Date of issue/Date of revision24 November 2023Version 9.04

Section 1. Identification			
Product code	: 00393196		
Product name	: SIGMA NEXEON 710 REDBROWN		
Product type	: Liquid.		
Relevant identified uses o	Relevant identified uses of the substance or mixture and uses advised against		
Product use	: Antifouling products Professional applications, Used by spraying.		
Supplier's details	: PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803. Tel +65 68653737		
Emergency telephone number (with hours of operation)	: CHEMTREC +(65)-31581349 (CCN 17704)		

# Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3         ACUTE TOXICITY (oral) - Category 4         ACUTE TOXICITY (inhalation) - Category 2         SKIN CORROSION/IRRITATION - Category 2         SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1         REPRODUCTIVE TOXICITY - Category 1B         SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2         SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1         </li> </ul>
	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

GHS label elements, including precautionary statements

Hazard pictograms	
Signal word Hazard statements	<ul> <li>Danger</li> <li>Flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Fatal if inhaled. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (central</li> </ul>

### Section 2. Hazards identification

nervous system (CNS), hearing organs) Very toxic to aquatic life with long lasting effects.

Precautionary statements		
Prevention	:	Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. In case of inadequate ventilation wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour. Wash thoroughly after handling.
Response	:	Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

#### CAS number/other identifiers

CAS number EC number	<ul><li>Not applicable.</li><li>Mixture.</li></ul>
Ingredient name	
<b>x</b> ylene	
ethylbenzene	

ethylbenzene	10 - <20	100-41-4	
1-methoxy-2-propanol	5 - <10	107-98-2	
pyrithione zinc	5 - <10	13463-41-7	
Talc , not containing asbestiform fibres	5 - <10	14807-96-6	
1H-Pyrrole-3-carbonitrile, 4-bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-	3 - <5	122454-29-9	
dimethyl carbonate	3 - <5	616-38-6	
Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-	0.3 - <1	55349-01-4	
methanol	0.1 - <0.3	67-56-1	

<mark>%</mark> 10 - <20

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

**CAS number** 

1330-20-7

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
	In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. Apply generous quantities of fresh calcium gluconate gel to all areas. Get immediate medical attention. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact :	Causes serious eye damage.
Inhalation :	Fatal if inhaled.
Skin contact :	Causes skin irritation. Defatting to the skin.
Ingestion :	Harmful if swallowed.
Over-exposure signs/sympton	<u>ns</u>
Eye contact :	Adverse symptoms may include the following: pain watering redness
Inhalation :	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact :	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

### Section 4. First aid measures

Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessaryNotes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed.<br/>The exposed person may need to be kept under medical surveillance for 48 hours.Specific treatments: No specific treatment.Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it<br/>is suspected that fumes are still present, the rescuer should wear an appropriate<br/>mask or self-contained breathing apparatus. It may be dangerous to the person<br/>providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing<br/>thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and material for cont	ainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Section 7. Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited handled, stored and processed. Workers should eating, drinking and smoking. Remove contamina equipment before entering eating areas. See also	wash hands and face before ated clothing and protective
information on hygiene measures.	
Conditions for safe storage, including any incompatibilities : Store between the following temperatures: 0 to 35 accordance with local regulations. Store in a segr in original container protected from direct sunlight area, away from incompatible materials (see Sect locked up. Eliminate all ignition sources. Separat container tightly closed and sealed until ready for opened must be carefully resealed and kept uprig store in unlabelled containers. Use appropriate co contamination. See Section 10 for incompatible materials	regated and approved area. Store t in a dry, cool and well-ventilated tion 10) and food and drink. Store te from oxidising materials. Keep use. Containers that have been yht to prevent leakage. Do not ontainment to avoid environmental

# Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits** 

Ingredient name	Exposure limits
<b>⊠</b> lene	Workplace Safety and Health Act
	(Singapore, 2/2006). [Xylene]
	PEL (short term): 651 mg/m <sup>3</sup> 15 minutes.
	PEL (short term): 150 ppm 15 minutes.
	PEL (long term): 434 mg/m <sup>3</sup> 8 hours.
	PEL (long term): 100 ppm 8 hours.
ethylbenzene	Workplace Safety and Health Act
	(Singapore, 2/2006).
	PEL (short term): 543 mg/m <sup>3</sup> 15 minutes.
	PEL (short term): 125 ppm 15 minutes.
	PEL (long term): 434 mg/m <sup>3</sup> 8 hours.
	PEL (long term): 100 ppm 8 hours.
1-methoxy-2-propanol	Workplace Safety and Health Act
	(Singapore, 2/2006). [Propylene glycol
	monomethyl ether]
	PEL (short term): 553 mg/m <sup>3</sup> 15 minutes.
	PEL (short term): 150 ppm 15 minutes.
	PEL (long term): 369 mg/m <sup>3</sup> 8 hours.
Tala and a set in the set of the set of the set	PEL (long term): 100 ppm 8 hours.
Talc , not containing asbestiform fibres	Workplace Safety and Health Act
	(Singapore, 2/2006).
	PEL (long term): 2 mg/m <sup>3</sup> 8 hours.
methanol	Workplace Safety and Health Act
	(Singapore, 2/2006).
	PEL (short term): 328 mg/m <sup>3</sup> 15 minutes.
	PEL (short term): 250 ppm 15 minutes. PEL (long term): 262 mg/m <sup>3</sup> 8 hours.
	PEL (long term): 202 mg/m 8 hours.

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# Section 8. Exposure controls/personal protection

Recommended monitoring procedures	:	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering control also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.		
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Individual protection measur	<u>'es</u>			
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, be eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated cloth Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.		
Eye/face protection	1	Chemical splash goggles and face shield.		
Skin protection				
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard sh be worn at all times when handling chemical products if a risk assessment indic this is necessary. Considering the parameters specified by the glove manufact check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
Gloves	1	For prolonged or repeated handling, use the following type of gloves:		
		Not recommended: nitrile rubber Recommended: butyl rubber, neoprene, natural rubber (latex), polyvinyl alcohol (PVA), Viton®		
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.		
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		

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# Section 8. Exposure controls/personal protection

Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
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# Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	Liquid.		
Colour	Brownish-red.		
Odour	Characteristic.		
рН	nsoluble in water.		
Boiling point	>37.78°C (>100°F)		
Flash point	Closed cup: 28°C (82.4°F)		
Evaporation rate	Highest known value: 3.22 (dimethyl carbonate) Weighted average: 1.07compared with butyl acetate		
Flammability (solid, gas)	liquid		
Vapour pressure	Highest known value: 7.6 kPa (56.8 mm Hg) (at 20°C) (dimethyl carbonate). Weighted average: 1.78 kPa (13.35 mm Hg) (at 20°C)		
Vapour density	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.5 (Air = 1	)	
Relative density	1.42		
Colubility/ico)	Media Result		
Solubility(ies)	zold water Not soluble		
Auto-ignition temperature	owest known value: 270°C (518°F) (1-methoxy-2-propanol).	]	
Viscosity	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)		

# Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

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### Section 10. Stability and reactivity

Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
pyrithione zinc	LC50 Inhalation Dusts and mists	Rat	0.14 mg/l	4 hours
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	177 mg/kg	-
1H-Pyrrole-3-carbonitrile,	LC50 Inhalation Dusts and mists	Rat	<0.25 mg/l	4 hours
4-bromo-2-(4-chlorophenyl)				
-5-(trifluoromethyl)-				
	LD50 Dermal	Rat	520 to 750 mg/	-
			kg	
	LD50 Oral	Rat	28.7 mg/kg	-
dimethyl carbonate	LC50 Inhalation Vapour	Rat	140000 mg/m <sup>3</sup>	4 hours
-	LD50 Dermal	Rabbit	2.5 g/kg	-
	LD50 Oral	Rat	12.9 g/kg	-
methanol	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
pyrithione zinc	Eyes - Cornea opacity	Rabbit	4	24 hours	24 hours
Conclusion/Summary				·	
Skin :	There are no data available	e on the mixtur	e itself.		
Eyes :	There are no data available	e on the mixtur	e itself.		
Respiratory	There are no data available	There are no data available on the mixture itself.			
<u>Sensitisation</u>					
Conclusion/Summary					
Skin :	There are no data available	e on the mixtur	e itself.		
Respiratory	There are no data available	e on the mixtur	e itself.		
Mutagenicity					
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# Section 11. Toxicological information

<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
dimethyl carbonate	Category 3	-	Respiratory tract irritation
methanol	Category 1	-	-

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
pyrithione zinc	Category 1	-	-
1H-Pyrrole-3-carbonitrile, 4-bromo-2-(4-chlorophenyl)-5-	Category 1	oral	central nervous
(trifluoromethyl)-	Category 2	inhalation	system (CNS)

#### Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

# Information on likely routes : Not available. of exposure

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: Fatal if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: Harmful if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

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# Section 11. Toxicological information

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Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

Delayed and immediate effe	<u>cts as well as chronic effects from short and long-term exposure</u>
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.

#### Numerical measures of toxicity Acute toxicity estimates

### Section 11. Toxicological information

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Route	ATE value
Oral	460.65 mg/kg
Dermal	3328.45 mg/kg
Inhalation (vapours)	31.62 mg/l
Inhalation (dusts and mists)	0.37 mg/l

#### Other information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
pyrithione zinc	Acute EC50 5.513 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Acute LC50 0.0082 mg/l	Daphnia	48 hours
	Chronic NOEC 1.889 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Chronic NOEC 0.0027 mg/l	Daphnia	21 days
1H-Pyrrole-3-carbonitrile, 4-bromo-2-(4-chlorophenyl) -5-(trifluoromethyl)-	Acute EC50 0.012 mg/l	Algae	72 hours
e (	Acute LC50 0.0015 mg/l	Daphnia	48 hours
	Acute LC50 0.0013 mg/l	Fish	96 hours
	Acute NOEC 0.00073 mg/l	Algae	72 hours
	Chronic NOEC 0.0002 mg/l	Daphnia	21 days
	Chronic NOEC 0.00017 mg/l	Fish	33 days
dimethyl carbonate	Acute LC50 >100 mg/l	Fish	96 hours
methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene pyrithione zinc	-	79 % - Readily - 10 days 39 % - 28 days	-	-
	-	59 /0 - 20 days	-	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

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# Section 12. Ecological information

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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ylene ethylbenzene pyrithione zinc	- - -	-	Readily Readily Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
1-methoxy-2-propanol	<1	-	Low
pyrithione zinc	0.9	0.9	Low
dimethyl carbonate	0.354	-	Low
methanol	-0.77	-	Low

#### Mobility in soil

Soil/water partition : No coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

### Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN1992	UN1992	UN1992
UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S. (xylene, pyrithione zinc)	FLAMMABLE LIQUID, TOXIC, N.O.S. (xylene, pyrithione zinc)	FLAMMABLE LIQUID, TOXIC, N.O.S. (xylene, pyrithione zinc)
Transport hazard class(es)	3 (6.1)	3 (6.1)	3 (6.1)
Packing group	III	111	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(pyrithione zinc, 1H-Pyrrole- 3-carbonitrile, 4-bromo-2- (4-chlorophenyl)-5- (trifluoromethyl)-)	Not applicable.

#### **Additional information**

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

# **Special precautions for user : Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

International regulations Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

### Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 24 November 2023
Date of previous issue	: 3/2/2022
Version	: 9.04
Prepared by	: EHS
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

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