SAFETY DATA SHEET

SIGMA NEXEON 710 REDBROWN



Date of issue 2 March 2022

Version 2

1. Product and company identification

Product name	: SIGMA NEXEON 710 REDBROWN		
Product code	: 00445115		
Product type	: Liquid.		
Relevant identified uses of the substance or mixture and uses advised against			
Product use	: Professional applications, Used by spraying.		
Use of the substance/ mixture	: Antifouling products		

Uses advised against	: Not applicable.
Supplier's details	: PPG PMC Japan Co., Ltd. 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Tel : +81 78 574 2777 Fax : +81 78 576 0035
Emergency telephone number	: 078 574 2777

2. Hazards identification

GHS Classification	: AMMABLE LIQUIDS - Category 3
Che Glassification	ACUTE TOXICITY (oral) - Category 4
	ACUTE TOXICITY (inhalation) - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -
	Category 1
	Category
GHS label elements	
Hazard pictograms	
nazara protogranio	

Signal word

: Danger

Product code 00445115 Product name SIGMA NEXEC	Date of issue 2 March 2022 Version 2 10 REDBROWN				
2. Hazards identification					
Hazard statements	Tammable liquid and vapor. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. Causes damage to organs. (central nervous system (CNS), kidneys, liver, nervous system, respiratory system) Causes damage to organs through prolonged or repeated exposure. (hearing organs, nervous system, respiratory system) Very toxic to aquatic life with long lasting effects.				
Precautionary statements					
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink of smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.				
Response	Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF NHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor. IF SWALLOWED: Call a POISON CENTER or doctor f you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.				
Storage	Store locked up. Store in a well-ventilated place. Keep container tightly closed.				
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.				
Other hazards which do not result in classification	Prolonged or repeated contact may dry skin and cause irritation.				

3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number	: Not applicable.
CSCL number	: Not available.

Ingredient name	%	CAS number	CSCL
barium sulfate	20 - <25	7727-43-7	1-89
Xylene	12.5 - <15	1330-20-7	3-3; 3-60
ethyl benzene	10 - <12.5	100-41-4	3-28; 3-60
Propylene glycol monomethyl ether	5 - <7	107-98-2	2-404; 7-97
Zinc salt of 2-pyridinethiol 1-oxide	5 - <7	13463-41-7	5-3725; 9-1110
Diiron trioxide	5 - <7	1309-37-1	1-357; 5-5188
Talc (containing no asbestos or quartz)	5 - <7	14807-96-6	Not available.
4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H- pyrrole-3-carbonitrile	3 - <5	122454-29-9	5-6964
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3. Composition/information	on ingredie	nts		
Octadecanamide, N,N'-1,6-hexanediylbis	0.5 - <1	55349-01-4	2-3055	
[12-hydroxy- Ethanol	0.2 - <0.5	64-17-5	2-202	
Methanol	0.2 - <0.5 0.2 - <0.5	67-56-1	2-201	

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.

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 recognized skin cleanser. Do NOT use solvents or thinners. If swallowed, seek medical advice immediately and show this container or label. Ingestion 5 Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

most important symptoms/em	colo, dotte una delayed
Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Foxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	o <u>ms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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4. First aid measu	res				
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations				
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations				
Indication of immediate me	lical attention and special treatment needed, if necessary				
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. 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 is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.				

See toxicological information (Section 11)

5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use dry chemical, CO₂, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media Specific hazards arising : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In from the chemical 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 may include the following materials: decomposition products carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides **Special protective actions** : 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 for fire-fighters training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. **Special protective** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. equipment for fire-fighters

6. Accidental release measures

Personal precautions, protec	tive 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized 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".
Environmental precautions Methods and materials for co	: Avoid dispersal of spilled 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.
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 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

7. Handling and storage

Precautions for safe : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which handling this product is used. 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 vapor 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.

material may pose the same hazard as the spilled product. Note: see Section 1 for

emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Conditions for safe storage : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Xylene	ISHL (Japan, 6/2020).
	TWA: 50 ppm 8 hours.
	Japan Society for Occupational Health
	(Japan, 5/2020).
	OEL-M: 50 ppm 8 hours.
	OEL-M: 217 mg/m ³ 8 hours.
ethyl benzene	Japan Society for Occupational Health
	(Japan, 5/2020).
	OEL-M: 217 mg/m ³ 8 hours.
	OEL-M: 50 ppm 8 hours.
	ISHL (Japan, 6/2020).
	TWA: 20 ppm 8 hours.
Diiron trioxide	Japan Society for Occupational Health
	(Japan, 5/2020).
	OEL-M: 1 mg/m ³ 8 hours. Form: Respirabl
	dust (Class 2 Dust)
	OEL-M: 4 mg/m ³ 8 hours. Form: Total dust
	(Class 2 Dust)
Talc (containing no asbestos or quartz)	Japan Society for Occupational Health
	(Japan, 5/2020).
	OEL-M: 0.5 mg/m ³ 8 hours. Form:
	Respirable dust (Class 1 Dust)
	OEL-M: 2 mg/m ³ 8 hours. Form: Total dust
Mathemal	(Class 1 Dust)
Methanol	Japan Society for Occupational Health
	(Japan, 5/2020). Absorbed through skin. OEL-M: 260 mg/m ³ 8 hours.
	OEL-M. 200 mg/m² 8 hours.
	ISHL (Japan, 6/2020).
	TWA: 200 ppm 8 hours.

procedures atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

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8. Exposure con	trols/personal protection
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 controls also need to keep gas, vapor 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 meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	: Chemical splash goggles and face shield.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, 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	: For prolonged or repeated handling, use the following type of gloves:
	Not recommended: nitrile rubber Recommended: butyl rubber, polyvinyl alcohol (PVA), Viton®, neoprene, natural rubber (latex)
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.
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.

9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Brownish-red.
Odor	: Characteristic.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 26°C (78.8°F)
Relative density	: 1.41
Solubility	: Insoluble in the following materials: cold water.
Viscosity	: Not Applicable

10. Stability and reactivity

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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: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
arium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethyl benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Propylene glycol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
monomethyl ether				
-	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
Zinc salt of 2-pyridinethiol 1-oxide	LC50 Inhalation Dusts and mists	Rat	0.14 mg/l	4 hours
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	177 mg/kg	-
Diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
4-Bromo-2-(4-chlorophenyl)	LC50 Inhalation Dusts and mists	Rat	<0.25 mg/l	4 hours
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-5-(trifluoromethyl)-1H- pyrrole-3-carbonitrile						
	LD50 Dermal	Rat	520 to 750 mg/	-		
		Det	kg			
	LD50 Oral	Rat	28.7 mg/kg	-		
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours		
	LD50 Dermal	Rat	17100 mg/kg	-		
	LD50 Oral	Rat	7 g/kg	-		
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours		
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours		
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours		
	LD50 Dermal	Rabbit	15800 mg/kg	-		
	LD50 Oral	Rat	5600 mg/kg	-		

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene Zinc salt of 2-pyridinethiol	Skin - Moderate irritant Eyes - Cornea opacity	Rabbit Rabbit	-	24 hours 500 mg 24 hours	- 24 hours
1-oxide					

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Kylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory system
	Category 3		Narcotic effects
ethyl benzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Propylene glycol monomethyl ether	Category 3	-	Narcotic effects
Zinc salt of 2-pyridinethiol 1-oxide	Category 1	-	nervous system
Diiron trioxide	Category 1	-	respiratory system
Talc (containing no asbestos or quartz)	Category 1	-	respiratory system
Ethanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Methanol	Category 1	-	central nervous system (CNS), eyes, systemic toxicity
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11. Toxicological information

-		
	Category 3	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
barium sulfate	Category 1	-	respiratory system
Xylene	Category 1	-	nervous system, respiratory system
ethyl benzene	Category 2	-	hearing organs
Zinc salt of 2-pyridinethiol 1-oxide	Category 1	-	nervous system, respiratory system
Diiron trioxide	Category 1	-	respiratory system
Talc (containing no asbestos or quartz)	Category 1	-	respiratory system
Ethanol	Category 1	-	liver
	Category 2		central nervous system (CNS)
Methanol	Category 1	-	central nervous system (CNS), eyes

Aspiration hazard

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

Information on the likely routes of exposure	: Not available.
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	 Poxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	 Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
<u>Symptoms related to the p</u> Eye contact	hysical, chemical and toxicological characteristics : Adverse symptoms may include the following:
	pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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11. Toxicological	ormation	
Skin contact	Adverse symptoms may include the following: rritation edness dryness cracking educed fetal weight ncrease in fetal deaths skeletal malformations	
Ingestion	Adverse symptoms may include the following: educed fetal weight ncrease in fetal deaths skeletal malformations	
Delayed and immediate effect	nd also chronic effects from short and long term exposure	
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		
General	Causes damage to organs through prolonged or repeated exposure. Prolor epeated contact can defat the skin and lead to irritation, cracking and/or de Once sensitized, a severe allergic reaction may occur when subsequently e o very low levels.	ermatitis.
Carcinogenicity	May cause cancer. Risk of cancer depends on duration and level of exposu	ure.
Mutagenicity	No known significant effects or critical hazards.	
Reproductive toxicity	May damage fertility or the unborn child.	

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMA NEXEON 710 REDBROWN	445	2199.6	N/A	30.5	0.62
barium sulfate	N/A	2500	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
ethyl benzene	3500	17800	N/A	17.8	N/A
Propylene glycol monomethyl ether	5200	13000	N/A	11	N/A
Zinc salt of 2-pyridinethiol 1-oxide	177	2500	N/A	N/A	0.14
Diiron trioxide	10000	N/A	N/A	N/A	N/A
4-Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H- pyrrole-3-carbonitrile	28.7	300	N/A	N/A	0.05
Ethanol	7000	17100	N/A	124.7	N/A
Methanol	500	15800	64000	N/A	N/A

Other information

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11. Toxicological 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 vapor/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.

12. Ecological information

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
ethyl benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Propylene glycol monomethyl ether	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
Zinc salt of 2-pyridinethiol 1-oxide	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
Diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
4-Bromo-2-(4-chlorophenyl) -5-(trifluoromethyl)-1H- pyrrole-3-carbonitrile	Acute EC50 0.012 mg/l	Algae	72 hours
	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
Ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethyl benzene Zinc salt of 2-pyridinethiol 1-oxide	-	79 % - Rea 39 % - 28 c	adily - 10 days days	-		-
Product/ingredient name	Aquatic half-life	9	Photolysis		Biodeg	radability
▼ylene ethyl benzene Zinc salt of 2-pyridinethiol 1-oxide Ethanol	- - -		- - 50%; < 28 day(s) -		Readily Readily Not rea	/ adily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	low
ethyl benzene	3.6	79.43	low
Propylene glycol monomethyl ether	<1	-	low
Zinc salt of 2-pyridinethiol 1-oxide	0.9	0.9	low
Ethanol	-0.35	-	low
Methanol	-0.77	-	low

12. Ecological information

Mobility in soil Soil/water partition coefficient (Koc) Mobility	Not available.Not available.
Other adverse effects	: No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized 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 nonrecyclable 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	U N1992	VN1992	VN1992
UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.	FLAMMABLE LIQUID, TOXIC, N.O.S.	AMMABLE LIQUID, TOXIC, N.O.S.
	(xylene, pyrithione zinc)	(xylene, pyrithione zinc)	(xylene, pyrithione zinc)
Transport hazard class(es)	3 (6.1)	3 (6.1)	3 (6.1)
Packing group	III	III	III
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 $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$.
IATA	 The environmentally hazardous substance mark may appear if required by other transportation regulations.

14. Transport information

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

15. Regulatory information

Fire Service Law

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class II petroleums	III	Flammable - Keep Fire Away	1000 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
	≥10 - ≤20	Class 1	80
	≥10 - ≤20	Class 1	53

ISHL

Ordinance on the prevention of the hazard due to specified chemical substances

Ingredient name	%		Reference number
E thyl benzene		Group-2 Substances under Supervision	3-3

Substances requiring labelling

Ingredient name	%	Status	Reference number
▼yleneEthylbenzenePropylene glycol monomethyl ether; 2-Propanol,1-methoxy-Iron oxide; Diiron(III) trioxideEthanol	≥10 - ≤20	Listed	136
	≥10 - ≤20	Listed	70
	≤10	Listed	496
	≤10	Listed	192
	≤10	Listed	61

Chemicals requiring notification

Ingredient name	%	Status	Reference number
▼ylene Ethylbenzene	≥10 - ≤20 ≥10 - ≤20	Listed Listed	136 70
Propylene glycol monomethyl ether; 2-Propanol, 1-methoxy-	≤10	Listed	496
Iron oxide; Diiron(III) trioxide Ethanol Methanol	≤10 ≤10 ≤10	Listed Listed Listed	192 61 560

Carcinogen

Ingredient name	%		Reference number
ethylbenzene	≥10 - ≤20	Listed	-

15. Regulatory information

<u>Mutagen</u>

None of the components are listed.

Corrosive liquid Occupational Safety and Health Law	: Not listed : Inflammable
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
Dangerous Substances	: Inflammable
Lead regulation	: Not listed
Organic solvents poisoning prevention	: Class 2

Poisonous and Deleterious Substances

Ingredient name	%	Status	Reference number
Bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole- 3-carbonitrile	4.014	Deleterious	-

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
▼ ylene	14.83	Priority assessment	125
Ethylbenzene	10.81	Priority assessment	50
(T-4)-Bis[2-(thioxo-kappaS)-pyridin-1(2H)-olato-kappaO] zinc(II); Pyrithione zinc	6.612	Priority assessment	139
Methanol	0.237	Priority assessment	90
Triethylamine	0.0446	Priority assessment	190
Toluene	0.01844	Priority assessment	46
Benzene	0.0006915	Priority assessment	45

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law concerning prevention	1	Not available.
of pollution of the ocean		

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

15. Regulatory information

None of the components are listed.

JSOH Carcinogen List of Specially Controlled Industrial Waste	: Group 1 : Not listed
Japan inventory Road law	All components are listed or exempted.Not available.

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 2 March 2022
Date of previous issue	: 9/23/2021
Version	: 2
Prepared by	: EHS
Key to abbreviations	 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association 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) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

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