SAFETY DATA SHEET

SIGMA SAILADVANCE NX REDBROWN



Date of issue 5 February 2024

Version 2

1. Product and company identification			
Product name	: SIGMA SAILADVANCE NX REDBROWN		
Product code	: 000001192132		
Other means of identification	: 00464046		
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 Japan; Tel: +81-78-574-2777		
Emergency telephone number	: 078 574 2777		

2. Hazards identification

GHS Classification	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
	RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Category 1B TOXIC TO REPRODUCTION - Effects on or via lactation
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	SPEČIFÍC 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
GHS label elements	
Hazard pictograms	

2. Hazards identification

Signal word		Dangar
Signal word		
Hazard statements	÷	Fammable liquid and vapor. Harmful if swallowed or if inhaled.
		Causes skin irritation.
		May cause an allergic skin reaction.
		Causes serious eye irritation.
		May cause allergy or asthma symptoms or breathing difficulties if inhaled.
		May cause respiratory irritation.
		May cause drowsiness or dizziness.
		Suspected of causing cancer.
		May damage fertility or the unborn child.
		May cause harm to breast-fed children.
		Causes damage to organs. (central nervous system (CNS), kidneys, liver, respiratory organs, systemic toxicity, whole body)
		Causes damage to organs through prolonged or repeated exposure. (hearing
		organs, kidneys, nervous system, respiratory organs, thyroid)
		Very toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	1	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. Wear respiratory 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. Avoid contact during pregnancy and while nursing. Do not eat, drink
		or 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
Response		INHALED: Remove person to fresh air and keep comfortable for breathing. Call a
		POISON CENTER or doctor if you feel unwell. If experiencing respiratory
		symptoms: Call a POISON CENTER or doctor. IF SWALLOWED: Call a POISON
		CENTER or doctor if 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
Diopodu	1	and international regulations.
Other hazards which do not	:	Prolonged or repeated contact may dry skin and cause irritation.

(result in classification

3. Composition/information on ingredients

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Substance/mixture
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: Mixture

CAS number/other identifiers	<u>i</u>	
CAS number CSCL number		Not applicable. Not available.

3. Composition/information on ingredients

Ingredient name	%	CAS number	CSCL
dícopper oxide	25 - <50	1317-39-1	1-297
Xylene	15 - <20	1330-20-7	3-3; 3-60
Talc containing no asbestos or quartz	12.5 - <15	14807-96-6	Not available.
Diiron trioxide	7 - <10	1309-37-1	1-357; 5-5188
Rosin	7 - <10	8050-09-7	7-935
Ethylbenzene	3 - <5	100-41-4	3-28; 3-60
Zinc oxide	3 - <5	1314-13-2	1-561
Chlorinated paraffin (C14-17)	2 - <3	85535-85-9	Not available.
Propylene glycol monomethyl ether	2 - <3	107-98-2	2-404; 7-97
Bis(2-sulfidopyridin-1-olato)copper	1 - <2	14915-37-8	5-6271
Solvent naphtha (petroleum), light aromatic	1 - <2	64742-95-6	Not available.
4,5-Dichloro-2-octylisothiazol-3(2H)-one	0.5 - <1	64359-81-5	5-6165
copper(II) oxide	0.5 - <1	1317-38-0	1-297
Copper	0.5 - <1	7440-50-8	Not available.
Terpineol	0.1 - <0.2	8000-41-7	3-2323

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.
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.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important sympt	oms/effects, acute and delayed
Potential acute healt	h effects
Eye contact	: Causes serious eye irritation.
Inhalation	 Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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	s/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

Product code 00000119213	Date of issue 5 February 2024 Version 2		
Product name SIGMA SAILADVANCE NX REDBROWN			
4. First aid measu	Ires		
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations		
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	dical 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 media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. 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.

5. Fire-fighting measures

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.

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing 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".
·	: 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.
Methods and materials for co	entainment 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 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 noncombustible, 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 spilled product. Note: see Section 1 for

emergency contact information and Section 13 for waste disposal.

7. Handling and storage Precautions for safe handling : Put on appropriate personal protective equipmodiate history of skin sensitization problems or asthmost respiratory disease should not be employed in

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid contact during pregnancy or while nursing. 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.

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
dicopper oxide	Japan Society for Occupational Health (Japan, 9/2022). [Copper and compounds] Skin sensitizer.
Xylene	Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours.
	Japan Society for Occupational Health (Japan, 9/2022). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m ³ 8 hours.
Talc containing no asbestos or quartz	Japan Society for Occupational Health (Japan, 9/2022). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder, Talc)] 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 (Class 1 Dust)
Diiron trioxide	Japan Society for Occupational Health (Japan, 9/2022). [Class 2 dusts (Dusts containing less than 3% cry stalline silica, Bakelite, Carbon black, Coal, Cork dust, Cotton dust, Iron oxide, Grain dust, Joss stick material dust, Marble, Portland

8. Exposure controls/personal protection

copper(II) oxide Skin sensitizer, Japan Society for Occupational Health (Japan, 9/2022). [Copper and compounds Skin sensitizer, Japan Society for Occupational Health (Japan, 9/2022). [Copper and compounds Skin sensitizer. Recommended monitoring procedures : Reference should be made to appropriate monitoring studards. 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 ventilatio 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 : 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 docthing before reusing. Contaminated work clothing should ho to be allowed out of the workplace. Wash contaminated clothing, Contaminated work clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eye protection : Chemical-resistant, impervious gloves complying with an approved standard should be work 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 glove manufacturers. In the case of mixtures, consisting of several su	P	P	cement, Zinc oxide)] OEL-M: 1 mg/m ³ 8 hours. Form: Respirable dust (Class 2 Dust)
Ethylbenzene (Japan, 9/2022). Skin sensitizer. Ethylbenzene Japan Society for Occupational Health (Japan, 9/2022). Absorbed through skin. OEL.M: 37 mg/m² 8 hours. OEL.M: 37 mg/m² 8 hours. Bis(2-sulfidopyridin-1-olato)copper Japan Society and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours. Japan Society and Health Act (Japan, 6/2020). Copper Japan Society for Occupational Health (Japan, 9/2022). [Copper and compounds Skin sensitizer. Copper Japan Society for Occupational Health (Japan, 9/2022). [Copper and compounds Skin sensitizer. 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 aibtorne 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 : Wash hands, forearms and face thoroughly after handling chemical products, befor eating, snoking and using should not be allowed out of the working period. Appropriate techniques should be used to remove potentially contaminated clothing contaminated work kolthing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. tygiene measures	_		(Class 2 Dust)
Ethylbenzene Japan Society for Occupational Health (Japan, 9/2022), Absorbed through skin. OEL-M: 87 mg/m ² 8 hours. Industrial Safety and Health Act (Japan, 6/2020). Bis(2-sulfidopyridin-1-olato)copper TWA: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). Copper(II) oxide Japan Society for Occupational Health (Japan, 9/2022), [Copper and compounds Skin sensitizer. Japan Society for Occupational Health (Japan, 9/2022), [Copper and compounds Skin sensitizer. Copper Japan Society for Occupational Health (Japan, 9/2022), [Copper and compounds Skin sensitizer. Appropriate engineering controls : 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 outprise to explosive limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation erupiment. Environmental exposure controls : Emissions from ventilation er work process equipment should be checked to ensure explosion-proof ventilation erupiment. Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, befor eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing ero eases, fume sched be workstation flocation. tygiene measures : Ch	Rosin		(Japan, 9/2022). Skin sensitizer.
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Japan Page: 7	Gloves	: butyl rubber	
			Japan Page: 7/1

8. Exposure controls/personal protection

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

Appearance			
Physical state	: Liquid.		
Color	: Brownish-red.		
Odor	: Aromatic. [Strong]		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 30°C (8	3°F)	
Relative density	: 1.71		
Solubility(ies)	Media	Result	
Solubility(les)	. cold water	Not soluble	
Viscosity	: > 100 s (ISO 6mm)		I

10. Stability and r	eactivity
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
dícopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
Rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
Ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Chlorinated paraffin (C14-17)	LC50 Inhalation Vapor	Rat	>48.17 g/m³	1 hours
	LD50 Oral	Rat	>5 g/kg	-
Propylene glycol monomethyl ether	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
Bis(2-sulfidopyridin-1-olato) copper	LC50 Inhalation Dusts and mists	Rat	70 mg/m ³	4 hours
coppe:	LD50 Oral	Rat	1075 mg/kg	-
Solvent naphtha (petroleum), light aromatic		Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
4,5-Dichloro-	LC50 Inhalation Dusts and mists	Rat	0.16 mg/l	4 hours
2-octylisothiazol-3(2H)-one				
-,	LD50 Dermal	Rabbit	3.9 g/kg	-
	LD50 Oral	Rat	567 mg/kg	-
copper(II) oxide	LD50 Oral	Rat	>2000 mg/kg	-
Copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
Terpineol	LD50 Oral	Rat	4300 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
X ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
Terpineol	Skin - Irritant	Rabbit	-	mg -	-

Sensitization

•••••••••••••••••••••••••••••••••••••••	Route of exposure	Species	Result
Terpineol	skin	Guinea pig	Sensitizing

<u>Mutagenicity</u>

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

11. Toxicological information

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
dicopper oxide	Category 1	-	whole body
	Category 3		Respiratory tract irritation
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
Diiron trioxide	Category 1	-	respiratory organs
Rosin	Category 3	-	Respiratory tract
Ethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Zinc oxide	Category 1	-	respiratory organs, systemic toxicity
Propylene glycol monomethyl ether	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
4,5-Dichloro-2-octylisothiazol-3(2H)-one	Category 1	-	respiratory organs
	Category 3		Narcotic effects
copper(II) oxide	Category 1	-	systemic toxicity
	Category 3		Respiratory tract irritation
Copper	Category 1	-	digestive organs
	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
X ylene	Category 1	-	nervous system, respiratory organs
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
Diiron trioxide	Category 1	-	respiratory organs
Ethylbenzene	Category 1	-	hearing organs, nervous system
Chlorinated paraffin (C14-17) 4,5-Dichloro-2-octylisothiazol-3(2H)-one	Category 1 Category 1	-	kidneys, thyroid respiratory organs

Aspiration hazard

Name	Result
Ethylbenzene Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

11. Toxicological information

Potential acute health effects	
Eye contact	Causes serious eye irritation.
Inhalation	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.

Symptoms related to the physical, chemical and toxicological characteristics

	-	
Eye contact	-	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
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
Delayed and immediate effect	:ts	and also chronic effects from short and long te
Short term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.

Potential immediate	: Not available.
effects	

Potential delayed effects : Not available.

Potential chronic health effects

Long term exposure

11. Toxicological information

General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child. May cause harm to breast-fed children.

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)
SIGMA SAILADVANCE NX REDBROWN	1668.0	7090.9	N/A	51.5	2.9
dicopper oxide	500	2500	N/A	N/A	3.34
Xylene	4300	1700	N/A	11	N/A
Diiron trioxide	10000	N/A	N/A	N/A	N/A
Rosin	7600	2500	N/A	N/A	N/A
Ethylbenzene	3500	17800	N/A	17.8	N/A
Zinc oxide	N/A	2500	N/A	N/A	N/A
Propylene glycol monomethyl ether	5200	13000	N/A	11	N/A
Bis(2-sulfidopyridin-1-olato)copper	1075	N/A	N/A	N/A	0.07
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
4,5-Dichloro-2-octylisothiazol-3(2H)-one	567	3900	N/A	N/A	0.16
copper(II) oxide	2500	N/A	N/A	N/A	N/A
Terpineol	4300	N/A	N/A	N/A	N/A

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 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

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Toxicity

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 mg/l	Fish	96 hours
Diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
Ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia magna -</i> Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
Propylene glycol monomethyl ether	Acute LC50 23300 mg/l	Daphnia	48 hours
2	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
4,5-Dichloro-	Acute EC50 267.368 µg/l Marine water	Algae - <i>Nitzschia pungens</i>	96 hours
		Japan	Page: 12/1

12. Ecological information

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2-octylisothiazol-3(2H)-one			
	Acute LC50 0.318 mg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 0.0027 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 19.789 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Chronic NOEC 0.00056 mg/l Fresh water	Fish	97 days
Copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia magna</i> - Neonate	21 days

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Ethylbenzene	-	79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
<mark>K</mark> ylene Ethylbenzene	-		-		Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
Rosin	1.9 to 7.7	-	High
Ethylbenzene	3.6	79.43	Low
Chlorinated paraffin (C14-17)	4.7 to 8.3	-	High
Propylene glycol monomethyl ether	<1	-	Low
Terpineol	2.6	-	Low

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: 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 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. 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.
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13. Disposal considerations

14. Transport information

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	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
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.	(dicopper oxide)	Not applicable.

Additional information

UN	 This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.2.
IMDG	: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precau	tions 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
▼yleneEthylbenzeneChlorinated normal paraffin (Limited to those C14-17 andthe mixtures thereof)Bis(2-sulfidopyridin-1-olato)copper	16	Class 1	80
	4.1	Class 1	53
	3.0	Class 1	597
	1.8	Class 1	703

Industrial Safety and Health Act

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15. Regulatory information

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

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

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
Copper and its compounds	≥30 - ≤40	Listed	379
Xylene	≥10 - ≤20	Listed	136
Iron oxide	≤10	Listed	192
Rosin	≤10	Listed	632
Ethylbenzene	≤10	Listed	70
Zinc oxide	≤10	Listed	188
Propylene glycol monomethyl ether	≤10	Listed	496
Petroleum naphtha	≤10	Listed	330

Chemicals requiring notification

Ingredient name	%	Status	Reference number
Copper and its compounds	≥30 - ≤40	Listed	379
Xylene	≥10 - ≤20	Listed	136
Iron oxide	≤10	Listed	192
Rosin	≤10	Listed	632
Ethylbenzene	≤10	Listed	70
Zinc oxide	≤10	Listed	188
Propylene glycol monomethyl ether	≤10	Listed	496
Copper compounds	≤10	Listed	379
Petroleum naphtha	≤10	Listed	330

Carcinogens based on Article 577-2 of the Ordinance on ISH

None of the components are listed.

<u>Mutagen</u>

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Inflammable, Combustible
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
ISHL Enforcement Order Appendix 1 - Dangerous Substances	: Inflammable, Combustible

15. Regulatory information

Lead regulation

: Not listed

Organic solvents poisoning prevention

: Class 2

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
X ylene	≥10 - ≤20	Priority assessment	125
Ethylbenzene	≤10	Priority assessment	50
Mono(or poly)chloroalkane(C14-17, normal chain)	≤10	Priority assessment	218
Bis(2-sulfidopyridin-1-olato)copper	≤10	Priority assessment	84
4,5-Dichloro-2-octylisothiazol-3(2H)-one	≤10	Priority assessment	221
1,2,4-Trimethylbenzene	≤10	Priority assessment	49
1,3,5-Trimethylbenzene	≤10	Priority assessment	201
Toluene	≤10	Priority assessment	46
Cumene	≤10	Priority assessment	126
Benzene	≤10	Priority assessment	45
Naphthalene	≤10	Priority assessment	76

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law concerning prevention : 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

None of the components are listed.

JSOH Carcinogen	: <mark>Ø</mark> roup 2B
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: At least one component is not listed.
Road law	: Not available.

16. Other information

: 5 February 2024
: 4/12/2023
: 2
: EHS

16. Other information

Key to abbreviations	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
	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
Indicator information the	hat has shanged from providually issued version

V Indicates information that has changed from previously issued version.

Notice to reader

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.