SAFETY DATA SHEET

SIGMA ECOFLEET 690 REDBROWN



Date of issue 13 August 2024

Version 4

1. Product and company identification

Product name	: SIGMA ECOFLEET 690 REDBROWN
Product code	: 00435247
Product type	: Liquid.
Relevant identified uses of	f 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

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2. Hazards identifi		
Hazard statements	:	Fammable liquid and vapor.Harmful if swallowed or if inhaled.Causes skin irritation.May cause an allergic skin reaction.Causes serious eye damage.May cause respiratory irritation.May cause drowsiness or dizziness.Suspected of causing cancer.May damage fertility or the unborn child.Causes damage to organs. (central nervous system (CNS), kidneys, liver,respiratory organs, systemic toxicity, whole body)May cause damage to organs through prolonged or repeated exposure. (hearing organs, nervous system, respiratory organs)Very toxic to aquatic life with long lasting effects.
Precautionary statements		5 5 5
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 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. 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. Immediately call a POISON CENTER or doctor.
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
dicopper oxide	25 - <50	1317-39-1	1-297
Xylene	7 - <10	1330-20-7	3-3; 3-60
Zinc N,N'-ethylenebis(dithiocarbamate)	7 - <10	12122-67-7	2-1841
Diiron trioxide	7 - <10	1309-37-1	1-357; 5-5188
isobutyl alcohol	3 - <5	78-83-1	2-3049
zeolites	2 - <3	1318-02-1	1-23
Ethyl Benzene	1 - <2	100-41-4	3-28; 3-60
copper(II) oxide	1 - <2	1317-38-0	1-297
Copper	0.5 - <1	7440-50-8	Not available.
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3. Composition/information or	ingred	lients	
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	0.5 - <1	911674-82-3	Not available.
crystalline silica, respirable powder (>10 microns)	<0.1	14808-60-7	1-548
Crystalline silica (quartz)	<0.1	14808-60-7	1-548

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 symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	Causes serious eye damage.
Inhalation	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
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	<u>ms</u>
Eye contact	Adverse symptoms may include the following: pain watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Product code 00435247	Date of issue 13 August 2024 Version 4	ŀ
Product name SIGMA ECO	ET 690 REDBROWN	
4. First aid measu	S	
Skin contact	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations	
Indication of immediate me	l attention and special treatment needed, if necessary	
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be de The exposed person may need to be kept under medical surveillance for 48 ho	
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training is suspected that fumes are still present, the rescuer should wear an appropria mask or self-contained breathing apparatus. It may be dangerous to the perso providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothin thoroughly with water before removing it, or wear gloves.	ate on

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.	
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides 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, prot	ective 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 responde	rs : 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	containment 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 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

Japan Society for Occupational Health
(Janan E(2002) [Conner and compounde]
(Japan, 5/2023). [Copper and compounds]
Skin sensitizer.
Industrial Safety and Health Act (Japan,
6/2020). [xylene]
TWA: 50 ppm 8 hours. Japan Society for Occupational Health
(Japan, 5/2023).
OEL-M: 50 ppm 8 hours.
OEL-M: 30 ppm o hours. OEL-M: 217 mg/m ³ 8 hours.
Japan Society for Occupational Health
(Japan, 5/2023). [Class 2 dusts (Bakelite
(asbestos-free, technical grade), Carbon
black, Coal, Cork dust, Cotton dust, Iron
oxide, Grain dust, Joss stick material
dust, Marble, Portland cement, Zinc
oxide)]
OEL-M: 1 mg/m ³ 8 hours. Form: Respirable
dust (Class 2 Dust)
OEL-M: 4 mg/m ³ 8 hours. Form: Total dust
(Class 2 Dust)
Japan Society for Occupational Health
(Japan, 5/2023).
OEL-M: 150 mg/m ³ 8 hours.
OEL-M: 50 ppm 8 hours. Industrial Safety and Health Act (Japan,
6/2020).
TWA: 50 ppm 8 hours.
Japan Society for Occupational Health
(Japan, 5/2023). Absorbed through skin.
OEL-M: 87 mg/m ³ 8 hours.
OEL-M: 20 ppm 8 hours.
Industrial Safety and Health Act (Japan,
6/2020).
TWA: 20 ppm 8 hours.
Japan Society for Occupational Health
(Japan, 5/2023). [Copper and compounds]
Skin sensitizer.
Japan Society for Occupational Health
(Japan, 5/2023). [Copper and compounds]
Skin sensitizer.
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crystalline silica, respirable p	owder (>10 microns)	Japan Society for Occupational Health (Japan, 5/2023). [Respirable crystalline silica]
Crystalline silica (quartz)		OEL-C: 0.03 mg/m ³ Form: Respirable dust Japan Society for Occupational Health (Japan, 5/2023). [Respirable crystalline silica] OEL-C: 0.03 mg/m ³ Form: Respirable dust
Recommended monitoring procedures		priate monitoring standards. Reference to the standards for the determination of hazardous
Appropriate engineering controls	or other engineering controls to keep below any recommended or statutor	Use process enclosures, local exhaust ventilation o worker exposure to airborne contaminants y limits. The engineering controls also need to ons below any lower explosive limits. Use nt.
Environmental exposure controls	they comply with the requirements o	rocess equipment should be checked to ensure f environmental protection legislation. In some gineering modifications to the process equipment as to acceptable levels.
Individual protection measu	res	
Hygiene measures	eating, smoking and using the lavate Appropriate techniques should be us Contaminated work clothing should	roughly after handling chemical products, before bry and at the end of the working period. sed to remove potentially contaminated clothing. not be allowed out of the workplace. Wash g. Ensure that eyewash stations and safety n location.
Eye protection	: Chemical splash goggles and face s	hield.
Skin protection		
Hand protection	be worn at all times when handling of this is necessary. Considering the p check during use that the gloves are should be noted that the time to breat different for different glove manufact	es complying with an approved standard should chemical products if a risk assessment indicates arameters specified by the glove manufacturer, e still retaining their protective properties. It akthrough for any glove material may be turers. In the case of mixtures, consisting of me of the gloves cannot be accurately
Gloves	: butyl rubber	
Body protection	being performed and the risks involved before handling this product. When wear anti-static protective clothing.	ne body should be selected based on the task ved and should be approved by a specialist there is a risk of ignition from static electricity, For the greatest protection from static anti-static overalls, boots and gloves.
Other skin protection		onal skin protection measures should be rformed and the risks involved and should be dling this product.
Respiratory protection	hazards of the product and the safe workers are exposed to concentration appropriate, certified respirators. Use	on known or anticipated exposure levels, the working limits of the selected respirator. If ons above the exposure limit, they must use se a properly fitted, air-purifying or air-fed ed standard if a risk assessment indicates this is

9. Physical and chemical properties

Physical state Odor	: Liquid. : Characteristic.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 26°C (78.8°F)	
Relative density	: 1.98		
Solubility(ies)	Media	Result	
Solubility(185)	. cold water	Not soluble	

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: 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 metal oxide/oxides			

11. Toxicological information

Information on toxicological effects

Ac	ute	tox	icity	

Product/ingredient name	Result	Species	Dose	Exposure
dicopper 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	-
Zinc N,N'-ethylenebis (dithiocarbamate)	LD50 Oral	Rat	>2000 mg/kg	-
Diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
isobutyl alcohol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
zeolites	LD50 Oral	Rat	>5 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	-
copper(II) oxide	LD50 Oral	Rat	>2000 mg/kg	-
Copper	LC50 Inhalation Dusts and mists		>5.11 mg/l	4 hours
Reaction products of	LC50 Inhalation Dusts and mists		>5.08 mg/l	4 hours
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Irritation/Corrosion

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

Sensitization

•	Route of exposure	Species	Result
Zinc N,N'-ethylenebis (dithiocarbamate)	skin	Guinea pig	Sensitizing

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
dicopper oxide	Category 1 Category 3	-	whole body Respiratory tract irritation
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Zinc N,N'-ethylenebis(dithiocarbamate)	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Diiron trioxide	Category 1	-	respiratory organs
isobutyl alcohol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Ethyl Benzene	Category 3	-	Respiratory tract irritation
	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)

11. Toxicological information

Name	Category	Route of exposure	Target organs
K ylene	Category 1	-	nervous system, respiratory organs
Zinc N,N'-ethylenebis(dithiocarbamate)	Category 1	-	respiratory organs
Diiron trioxide	Category 1	-	respiratory organs
zeolites	Category 1	-	respiratory organs
Ethyl Benzene	Category 1	-	hearing organs, nervous system
Crystalline silica (quartz)	Category 1	-	immune system, kidneys, respiratory organs

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>)</u>	
Eye contact	: Causes serious eye damage.	
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.	
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Cau skin irritation. Defatting to the skin. May cause an allergic skin reaction.	ises
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 p	sical, chemical and toxicological characteristics	
Eye contact	: Adverse symptoms may include the following: pain watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing 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: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations	

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11. Toxicological	int	formation
Ingestion	:	Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	:ts	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health eff	<u>ect</u>	<u>S</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. 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	1	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)
SIGMA ECOFLEET 690 REDBROWN	1149.7	12727.9	N/A	63.2	2.7
dicopper oxide	500	2500	N/A	N/A	3.34
Xylene	4300	1700	N/A	11	N/A
Zinc N,N'-ethylenebis(dithiocarbamate)	2500	N/A	N/A	N/A	0.5
Diiron trioxide	10000	N/A	N/A	N/A	N/A
isobutyl alcohol	2830	2460	N/A	11	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A
copper(II) oxide	2500	N/A	N/A	N/A	N/A

Other information

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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

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
isobutyl alcohol	Acute EC50 1100 mg/l	Daphnia	48 hours
zeolites	Acute LC50 >680 mg/l	Fish	96 hours
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
Reaction products of 12-hydroxyoctadecanoic	Acute LC50 >100 mg/l	Fish	96 hours
acid and octadecanoic acid and			
1,3-phenylenedimethanamine			

Persistence/degradability

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

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.12	7.4 to 18.5	Low
Zinc N,N'-ethylenebis (dithiocarbamate)	1.3	-	Low
isobutyl alcohol	1	-	Low
Ethyl Benzene	3.6	79.43	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

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13. Disposal considerations

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	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	: 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

15. Regulatory information

Fire Service Law

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

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
<mark>K</mark> ylene	9.9		80
Ethylbenzene	1.7		53

Industrial Safety and Health Act

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

Product name SIGMA ECOFLEET 690 REDBROWN

15. Regulatory information

Ingredient name	%		Reference number
₽fhyl benzene	≤10	Special Organic Solvents	3-3

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
Copper and its compounds	≥40 - ≤50	Listed	379
Xylene	≤10	Listed	136
Iron oxide	≤10	Listed	192
Butanol	≤10	Listed	477
Ethylbenzene	≤10	Listed	70
Crystalline silica	≤10	Listed	165-2

Chemicals requiring notification

Ingredient name	%	Status	Reference number
Copper and its compounds	≥40 - ≤50	Listed	379
Xylene	≤10	Listed	136
Iron oxide	≤10	Listed	192
Butanol	≤10	Listed	477
Ethylbenzene	≤10	Listed	70
Crystalline silica	≤10	Listed	165-2

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

None of the components are listed.

Mutagen

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
Lead regulation Organic solvents poisoning prevention	: Not listed : Class 2

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Product name SIGMA ECOFLEET 690 REDBROWN

15. Regulatory information

Ingredient name	%	Status	Reference number
<mark>X</mark> ylene Ethylbenzene	≤10 ≤10	Priority assessment Priority assessment	125 50
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45

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	:	Group 2B
List of Specially Controlled Industrial Waste	:	Not listed
Japan inventory	:	Not determined.
Road law	:	Not available.

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 13 August 2024
Date of previous issue	: 2/27/2023
Version	: 4
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	at has changed from previously issued version

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16. Other information

Notice to reader

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