Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

Date of issue/Date of revision

: 13 August 2024

: 1.02 Version



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

1.1 Product identifier	
Product name	: SIGMA ECOFLEET 690 REDBROWN
Product code	: 00435247
Product type	: Liquid.
Other means of identification	: Not available.
1.2 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	: Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

Supplier +31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

: Mixture **Product definition Classification according to UK CLP/GHS** Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

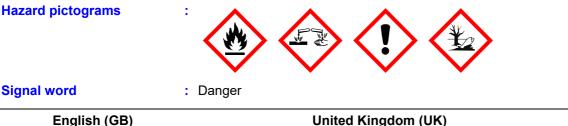
The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Code : 00435247 SIGMA ECOFLEET 690 RED	BR	Date of issue/Date of revision : 13 August 2024
SECTION 2: Hazards		
Hazard statements	:	Flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	:	Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P305 + P351 + P338, P501
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	<u>ien</u>	t <u>s</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do	:	Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

not result in classification

3.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	%	Classification	Туре
dícopper oxide	REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3,	[1] [2]
English (GB)	United F	(ingdom (UK)		2/*

Code : 00435247 SIGMA ECOFLEET 690 RE		e of issue/Date of revis	ion : 13 August 2	024
SECTION 3: Compo	sition/information o	n ingredients		
zineb (ISO)	EC: 235-180-1 CAS: 12122-67-7	≥5.0 - ≤10	H412 Skin Sens. 1, H317 STOT SE 3, H335	[1]
2-methylpropan-1-ol	Index: 006-078-00-2 REACH #: 01-2119484609-23	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315	[1] [2]

≥1.0 - ≤5.0

Eye Dam. 1, H318

STOT SE 3, H335

STOT SE 3, H336

Flam. Liq. 2, H225

Acute Tox. 4, H332

STOT RE 2, H373

(hearing organs)

[1] [2]

[1]

[1]

[1]

			(
	Index: 601-023-00-4		Asp. Tox. 1, H304
			Aquatic Chronic 3,
			H412
copper(II) oxide	REACH #:	≥1.0 - ≤5.0	Aquatic Acute 1, H400
		=1.0 - =0.0	_ · ·
	01-2119502447-44		(M=100)
	EC: 215-269-1		Aquatic Chronic 1,
	CAS: 1317-38-0		H410 (M=10)
	Index: 029-016-00-6		
copper	REACH #:	<1.0	Aquatic Acute 1, H400
	01-2119480154-42		(M=1)
	EC: 231-159-6		Aquatic Chronic 3,
	CAS: 7440-50-8		H412
1,3-bis[12-hydroxy-octadecamide-	REACH #:	<1.0	Skin Sens. 1, H317
N-methylene]-benzene	01-2119962189-26		Aquatic Chronic 4,
	CAS, 011674 00 0		

EC: 201-148-0

Index: 603-108-00-1

01-2119489370-35

CAS: 78-83-1

EC: 202-849-4

CAS: 100-41-4

REACH #:

CAS: 911674-82-3 Index: 616-198-00-2 See Section 16 for the full text of the H statements declared above.

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

ethylbenzene

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid m	easures
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 recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Code : 00435 SIGMA ECOFLEET 6	
	rst aid measures
Protection of first-a	
4.2 Most important s	ymptoms and effects, both acute and delayed
Potential acute healt	<u>n effects</u>
Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure sign	s/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any	immediate medical attention and special treatment needed
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.
SECTION 5: Fi	refighting measures
5.1 Extinguishing me	dia
Suitable extinguish media	
Unsuitable extingui media	shing : Do not use water jet.
5.2 Special hazards a	irising from the substance or mixture
Hazards from the substance or mixtu	 Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, wit 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 combus products	tion : Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

5.3 Advice for firefighters

English	(GB)
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Code	: 00435247	Date of issue/Date of revision	: 13 August 2024
SIGMA ECO	FLEET 690 REDBROWN		

SECTION 5: Firefighting measures

Special protective actions	1	Promptly isolate the scene by removing all persons from the vicinity of the incident if
for fire-fighters		there is a fire. No action shall be taken involving any personal risk or without
		suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: 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 this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating,
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Code	: 00435247	Date of issue/Date of revision	: 13 August 2024
SIGMA ECO	FLEET 690 REDBROWN		

SECTION 7: Handling and storage

	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.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Occupational exposure limits

Product/ingredient name	Exposure limit values			
dícopper oxide	EH40/2005 WELs (United Kingdom (UK), 1/2020). [Copper and			
	compounds] STEL: 2 mg/m ³ , (as Cu) 15 minutes. Form: Dusts and Mists			
	TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Dusts and Mists			
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p-			
	or mixed isomers] Absorbed through skin.			
	STEL: 441 mg/m ³ 15 minutes.			
	STEL: 100 ppm 15 minutes.			
	TWA: 220 mg/m ³ 8 hours.			
	TWA: 50 ppm 8 hours.			
2-methylpropan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).			
	STEL: 231 mg/m ³ 15 minutes.			
	STEL: 75 ppm 15 minutes.			
	TWA: 154 mg/m ³ 8 hours.			
	TWA: 50 ppm 8 hours.			
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed			
	through skin.			
	STEL: 552 mg/m ³ 15 minutes.			
	STEL: 125 ppm 15 minutes.			
	TWA: 441 mg/m ³ 8 hours.			
	TWA: 100 ppm 8 hours.			

Biological exposure indices

Product/ingredient name	Exposure indices
x ylene	XYLENES

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: 00435247 SIGMA ECOFLEET 690 REDBROWN Date of issue/Date of revision

: 13 August 2024

SECTION 8: Exposure controls/personal protection

procedures

Recommended monitoring : 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.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
dicopper oxide	DNEL	Long term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.041 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.082 mg/kg bw/day	General population	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
2-methylpropan-1-ol	DNEL	Long term Inhalation	55 mg/m³	General population	Local
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local
ethylbenzene	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
copper(II) oxide	DNEL	Long term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.041 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.082 mg/kg bw/day	General population	Systemic
copper	DNEL	Long term Dermal	137 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	273 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	273 mg/kg bw/day	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
dicopper oxide	Fresh water	0.0078 mg/l	-
	Fresh water sediment	87.1 mg/kg dwt	-
	Marine water	0.0056 mg/l	-
	Marine water sediment	676 mg/kg dwt	-
	Soil	64.6 mg/kg dwt	-
	Sewage Treatment Plant	0.23 mg/l	-
xylene	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment Plant		-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg	-
2-methylpropan-1-ol	Fresh water	0.4 mg/l	Assessment Factors
	Marine water	0.04 mg/l	Assessment Factors
	Sewage Treatment Plant	10 mg/l	Assessment Factors
	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.156 mg/kg dwt	-
	Soil	0.076 mg/kg dwt	Equilibrium Partitioning
ethylbenzene	Fresh water	0.1 mg/l	Assessment Factors
English (GB)	United Kingdom (UK	()	7/16

Code : 00435247

Date of issue/Date of revision

: 13 August 2024

SIGMA ECOFLEET 690 REDBROWN

SECTION 8: Exposure controls/personal protection

Mar	ine water	0.01 mg/l	Assessment Factors
Sew	age Treatment Plant	9.6 mg/l	Assessment Factors
Free	sh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
Mar	ine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
Soil		2.68 mg/kg dwt	Equilibrium Partitioning
Sec	ondary Poisoning	20 mg/kg	-

8.2 Exposure controls		
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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	ures	
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/face protection <u>Skin protection</u>	:	Chemical splash goggles and face shield.
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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. butyl rubber
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. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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.

Code	: 00435247	Date of issue/Date of revision	: 13 August 2024
SIGMA ECO	FLEET 690 REDBROWN		

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>				
Physical state	: Liquid			
Colour	: Not av	/ailable.		
Odour	: Chara	: Characteristic.		
Odour threshold	: Not av	vailable.		
Melting point/freezing point		ta for the follo		perature: -94.9°C (-138.8°F) This is based /Ibenzene. Weighted average: -95.9°C
Initial boiling point and boiling range	: >37.7	8°C (>100°F))	
Flammability (solid, gas)	: liquid			
Upper/lower flammability or explosive limits	: Great	est known ra	nge: Lower: 1.7% U	oper: 10.9% (2-methylpropan-1-ol)
Flash point	: Close	d cup: 26°C	(78.8°F)	
Auto-ignition temperature				
Ingredient name		°C	°F	Method
zineb (ISO)		149	300.2	

рН	Not applicable.
	Not applicable. insoluble in water.
Viscosity	: Kinematic (40°C): >21 mm ² /s
Solubility(ies)	:

2

	Media	Result				
	cold water	Not soluble				
N	liscible with water : N	No.				

Partition coefficient: n-octanol/ : Not applicable. water

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
₽ methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2				
Relative density	: 1.98	1			1		
Vapour density	: High	est known	value: 3.7 (Air = 1)	(xylene). W	eighted ave	erage: 3.43 (Air = 1	
Explosive properties		•	self is not explosive, with air is possible.	but the forma	ation of an e	explosible mixture o	
Oxidising properties	: Proc	luct does r	not present an oxidizi	ing hazard.			
Particle characteristics							
Median particle size	: Not	applicable					

<mark>Code</mark> SIGMA E	:00435247 COFLEET 690 REDBROWN	Date of issue/Date of revision	: 13 August 2024
SECTI	ON 10: Stability and read	tivity	

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dícopper oxide	LC50 Inhalation Dusts and	Rat	3.34 mg/l	4 hours
	mists			
	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	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
copper(II) oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	mists		-	
1,3-bis[12-hydroxy-	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
octadecamide-N-methylene]	mists		-	
-benzene				

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

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMA ECOFLEET 690 REDBROWN	1149.7	17223.3	N/A	100.5	7.7
dicopper oxide	500	N/A	N/A	N/A	3.34
xylene	4300	1700	N/A	11	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
ethylbenzene	3500	17800	N/A	17.8	N/A

Irritation/Corrosion

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

Code : 00435247	Date of issue/Date of revision	: 13 August 2024
SIGMA ECOFLEET 690 REDBROWN		

SECTION 11: Toxicological information

Conclusion/Summary	: Not available.
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitisation	

Product/ingredient name	Route of exposure	Species	Result		
zineb (ISO)	skin	Guinea pig	Sensitising		
Conclusion/Summary Skin	· There are no da	ta available on the mixture itself	:		
Respiratory	There are no data available on the mixture itself.There are no data available on the mixture itself.				
Mutagenicity					
Conclusion/Summary Carcinogenicity	: There are no da	ta available on the mixture itself			
Conclusion/Summary <u>Reproductive toxicity</u>	: There are no da	ta available on the mixture itself			
Conclusion/Summary Teratogenicity	: There are no da	ta available on the mixture itself			
Conclusion/Summary	: There are no da	ta available on the mixture itself			

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
zineb (ISO)	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result	
xylene	ASPIRATION HAZARD - Category 1	
ethylbenzene	ASPIRATION HAZARD - Category 1	

Information on likely routes of exposure	1	Not available.
Potential acute health effects		
Eye contact	1	Causes serious eye damage.
Inhalation	1	May cause respiratory irritation.
Skin contact	1	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

English	
Englion	

Code : 00435247 SIGMA ECOFLEET 690 RED	Date of issue/Date of revision : 13 August 2024 ROWN
SECTION 11: Toxico	gical information
Eye contact	Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Delayed and immediate effe	as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	Not available.
Potential delayed effects Long term exposure	Not available.
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ts</u>
Not available.	
Conclusion/Summary	Not available.
General	 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 : No known significant effects or critical hazards. **Mutagenicity** : No known significant effects or critical hazards.
- **Reproductive toxicity** : No known significant effects or critical hazards.

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
2	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 - Water flea - Daphnia magna - Neonate	21 days
1,3-bis[12-hydroxy- octadecamide-N-methylene]- benzene	Acute LC50 >100 mg/l	Fish	96 hours

clusion/Summary

Not available.

12.2 Persistence and degradability

Code	: 00435247	Date of issue/Date of revision	: 13 August 2024
SIGMA ECO	FLEET 690 REDBROWN		

SECTION 12: Ecological information

Product/ingredient name	Test	Result		Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10	days	-	-
Conclusion/Summary	: Not available.	1		4	
Product/ingredient name	Aquatic half-life		Photolysi	S	Biodegradability
xylene ethylbenzene	-		-		Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
zineb (ISO)	1.3	-	Low
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

: No known significant effects or critical hazards. **12.6 Other adverse effects**

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

<u>Product</u> Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste Waste catalogue	: Yes.
Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste

packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging		Waste catalogue
Container	15 01 06	mixed packaging

Code	: 00435247	Date of issue/Date of revision	: 13 August 2024

SIGMA ECOFLEET 690 REDBROWN

SECTION 13: Disposal considerations

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Special precautions

: This material and its container must be disposed of in a safe way. Care should be
taken when handling emptied containers that have not been cleaned or rinsed out.

Empty containers or liners may retain some product residues. Vapour from product

residues may create a highly flammable or explosive atmosphere inside the

container. Do not cut, weld or grind used containers unless they have been cleaned

thoroughly internally. Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers.
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SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	111	111	III	
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(dicopper oxide)	Not applicable.

Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
ADN	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

14.7 Transport in bulk	: Not available.
according to IMO	
instruments	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation
Annex XIV
None of the components are listed.
Substances of very high concern
None of the components are listed.
Ozone depleting substances
Not listed.

Code : 00435247	Date of issue/Date of revision	: 13 August 2024
SIGMA ECOFLEET 690 REDBROWN		

SECTION 15: Regulatory information

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain

dangerous substances, mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c E1

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
	No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H302	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications

United Kingdom (UK)

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Code : 0043 SIGMA ECOFLEET		e/Date of revision	: 13 August 2024	
SECTION 16: Other information				
Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZAR LONG-TERM (CHRONIC) AQUATIC HAZAI LONG-TERM (CHRONIC) AQUATIC HAZAI LONG-TERM (CHRONIC) AQUATIC HAZAI ASPIRATION HAZARD - Category 1	RD - Category 1 RD - Category 3		

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

FLAMMABLE LIQUIDS - Category 2

FLAMMABLE LIQUIDS - Category 3

SKIN SENSITISATION - Category 1

SKIN CORROSION/IRRITATION - Category 2

STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>	
Date of issue/ Date of revision	: 13 August 2024
Date of previous issue	e : 27 February 2023
Prepared by	: EHS
Version	: 1.02

Disclaimer

Eye Dam. 1

Eye Irrit. 2

Flam. Liq. 2 Flam. Liq. 3

Skin Irrit. 2

Skin Sens. 1

STOT RE 2

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 us, 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.