SAFETY DATA SHEET

Date of issue/Date of revision

: 21 October 2023

Version : 2



Europe

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

1.1 Product identifier

Product name	: SIGMA ECOFLEET 290 S BLACK
Product code	: 00467412

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 **Product definition** : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

English (GB)

Europe

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SECTION 2: Hazards identification

The product is classified as hazardous according to Regulation (EC) 1272/2008 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	
Signal word	: Danger
Hazard statements	 Fammable liquid and vapour. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. Very toxic to aquatic life with long lasting effects.
Prevention	: 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. Avoid release to the environment.
Response	: Collect spillage.
Storage	: 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. P280, P210, P273, P391, P403 + P233, P501
Hazardous ingredients	 dicopper oxide Hydrocarbons, C9, aromatics > 0.1% cumene rosin 4-methylpentan-2-one zineb (ISO) 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to professional users.
Special packaging requirem	nents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.

2.3 Other hazards

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Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are	e assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and caus	e irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
dicopper 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 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg ATE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100 M [Chronic] = 10	[1] [2]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≥10 - <20	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 10% EUH066: C ≥ 20%	[1]
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≥10 - ≤25	Skin Sens. 1, H317	-	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥10 - ≤25	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥5.0 - ≤10	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l EUH066: C ≥ 20%	[1] [2]
zineb (ISO)	EC: 235-180-1 CAS: 12122-67-7 Index: 006-078-00-2	≥5.0 - ≤10	Skin Sens. 1, H317 STOT SE 3, H335	-	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EL	J)
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SECTION 3: Composition/information on ingredients

copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1] [2]
copper	REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	<1.0	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
			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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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 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 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.
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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health ef	ffects
Eye contact	: Causes serious eye damage.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
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SECTION 4: First aid measures

Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
<u>Over-exposure signs/s</u>	<u>ymptoms</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
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 imr	nediate 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: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture

Hazards from the substance or mixture Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Hazardous combustion products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

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SECTION 5: Firefighting measures		

Special precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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	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 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
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

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SECTION 7: Handli	ing and storage
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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator wher 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 container 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

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).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values	
dicopper oxide	ACGIH TLV (United States, 1/2022). [Copper Fume]	
	TWA: 0.2 mg/m ³ 8 hours. Form: Fume	
rosin	ACGIH TLV (United States, 1/2022). [resin acids as total Resin	
	acids] Skin sensitiser. Inhalation sensitiser.	
	TWA: 0.001 mg/m ³ , (as total Resin acids) 8 hours. Form: Inhalable	Э
	fraction	
4-methylpentan-2-one	EU OEL (Europe, 1/2022).	
	STEL: 208 mg/m ³ 15 minutes.	
	STEL: 50 ppm 15 minutes.	
	TWA: 83 mg/m ³ 8 hours.	
	TWA: 20 ppm 8 hours.	
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.	
	STEL: 884 mg/m ³ 15 minutes.	
	STEL: 200 ppm 15 minutes.	
English (GB)	Europe 7/18	

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SECTION 8: Exposure controls/pe	rsonal protection	
1,3-bis[12-hydroxy-octadecamide-N-methylene]- benzene	TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. ACGIH TLV (United States). TWA: 3 mg/m ³ , (Respirable fraction)	

Recommended monitoring procedures Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
dícopper oxide	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
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
Hydrocarbons, C9, aromatics > 0.1% cumene	DNEL	Long term Inhalation	150 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	32 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	11 mg/kg bw/day	General population	Systemic
osin	DNEL	Long term Oral	1.0655 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.0655 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.131 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	10 mg/m ³	Workers	Local
zinc oxide	DNEL	Long term Inhalation	0.5 mg/m ³	Workers	Local
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
1-methylpentan-2-one	DNEL	Long term Oral	4.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	11.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	14.7 mg/m ³	General population	
	DNEL	Long term Inhalation	14.7 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	83 mg/m³	Workers	Local
	DNEL	Long term Inhalation	83 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	155.2 mg/m³	General population	Local
	DNEL	Short term Inhalation	155.2 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	208 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	208 mg/m ³	Workers	Systemic
ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
-	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
copper(II) oxide	DNEL	Long term Oral	0.041 mg/kg bw/day	General population	Systemic
English (GB)	1	1	Europe		8/18

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SECTION 8: Exposure controls/personal protection

		•			
	DNEL	Short term Oral	0.082 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
copper	DNEL	Long term Oral	0.041 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	1 mg/m ³	General population	Local
	DNEL	Long term Inhalation	1 mg/m ³	General population	Local
	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	Туре	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	-
rosin	-	Fresh water	0.002 mg/l	Assessment Factors
	-	Marine water	0 mg/l	Assessment Factors
	-	Sewage Treatment Plant	1000 mg/l	Assessment Factors
	-	Fresh water sediment	0.007 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.001 mg/kg dwt	Equilibrium Partitioning
	-	Soil	0 mg/kg dwt	Equilibrium Partitioning
zinc oxide	-	Fresh water	20.6 µg/l	Sensitivity Distribution
	-	Marine water	6.1 µg/l	Sensitivity Distribution
	-	Fresh water sediment	117 mg/kg dwt	Sensitivity Distribution
	-	Sewage Treatment Plant	52 µg/l	Assessment Factors
	-	Marine water sediment	56.5 mg/kg dwt	Assessment Factors
	-	Soil	35.6 mg/kg dwt	Sensitivity Distribution
4-methylpentan-2-one	-	Fresh water	0.6 mg/l	Assessment Factors
	-	Marine water	0.06 mg/l	Assessment Factors
	-	Sewage Treatment Plant	27.5 mg/l	Assessment Factors
	-	Fresh water sediment	8.27 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	0.83 mg/kg	Equilibrium Partitioning
	-	Soil	1.3 mg/kg	Equilibrium Partitioning
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
	-	Marine water	0.01 mg/l	Assessment Factors
	-		9.6 mg/l	Assessment Factors
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	-	Secondary 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 measures

Conforms to Regulation (EC) No.	1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
2020/878	

2020/878	
Code : 00467412 SIGMA ECOFLEET 290 S BLA	Date of issue/Date of revision : 21 October 2023 ACK
SECTION 8: Exposur	e controls/personal protection
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	: Chemical splash goggles and face shield. Use eye protection according to EN 166.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 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.
Gloves	: 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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.

SECTION 9: Physical and chemical properties

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

English (GB)	Europe	10/18
Odour threshold	: Not available.	
Odour	: Aromatic.	
Colour	: Black.	
Physical state	: Liquid.	
Appearance		
9.1 Information on basic phy	ysical and chemical properties	

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SECTION 9: Physical ar	۱d	chemical pro	perties					
Melting point/freezing point		May start to solidify at the following temperature: -43.77°C (-46.8°F) This is based on data for the following ingredient: 1,2,4-trimethylbenzene. Weighted average: -69.73°C (-93.5°F)						
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits		Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic)						
Flash point	:	Closed cup: 23.5°C						
Auto-ignition temperature	:	·						
		Ingredient name		°C	°F		Method	
		zineb (ISO)		149	300.2			
Decomposition temperature		Stable under recom	mended e	torade a	nd handling c	ondition	s (see Ser	tion 7)
pH		Not applicable. insol		-	na nanaling c	onution	5 (300 000	
Viscosity		Kinematic (40°C): >2						
Solubility(ies)	1		2111111/3					
Media		Decult						
		Result						
cold water		Not soluble						
Partition coefficient: n-octanol/ water	:	Not applicable.						
Vapour pressure	:		<u>.</u>					
vapour pressure			Vanoi	ır Press	ure at 20°C	Vap	our press	sure at 50°C
vapour pressure			Vapor					
vapour pressure		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
vapour pressure		Ingredient name 4-methylpentan-2-one			Method		kPa	Method
		-	mm Hg 15.75	kPa 2.1		Hg		
Evaporation rate Relative density		4-methylpentan-2-one Highest known value	mm Hg 15.75	kPa 2.1		Hg		
Evaporation rate	:	4-methylpentan-2-one Highest known value with butyl acetate	mm Hg 15.75 e: 1.7 (4-n	kPa 2.1 nethylpe	ntan-2-one) V	Hg Veighted	average:	1.6compar
Evaporation rate Relative density Vapour density	: : : :	4-methylpentan-2-one Highest known value with butyl acetate 1.65 Highest known value	mm Hg 15.75 e: 1.7 (4-n e: 4.1 (Air not explos	kPa 2.1 nethylpe r = 1) (1 sive, but	ntan-2-one) V ,2,4-trimethylk	Hg Veighted	average:). Weighte	1.6compar ed average:
Evaporation rate Relative density Vapour density Explosive properties	: : :	4-methylpentan-2-one Highest known value with butyl acetate 1.65 Highest known value 3.69 (Air = 1) The product itself is	mm Hg 15.75 e: 1.7 (4-n e: 4.1 (Air not explos air is poss	kPa 2.1 nethylpe = 1) (1 sive, but ible.	ntan-2-one) V ,2,4-trimethylk the formation	Hg Veighted	average:). Weighte	1.6compar ed average:
Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	: : :	4-methylpentan-2-one Highest known value with butyl acetate 1.65 Highest known value 3.69 (Air = 1) The product itself is vapour or dust with a	mm Hg 15.75 e: 1.7 (4-n e: 4.1 (Air not explos air is poss	kPa 2.1 nethylpe = 1) (1 sive, but ible.	ntan-2-one) V ,2,4-trimethylk the formation	Hg Veighted	average:). Weighte	1.6compar ed average:
Evaporation rate Relative density Vapour density Explosive properties	: :	4-methylpentan-2-one Highest known value with butyl acetate 1.65 Highest known value 3.69 (Air = 1) The product itself is vapour or dust with a	mm Hg 15.75 e: 1.7 (4-n e: 4.1 (Air not explos air is poss	kPa 2.1 nethylpe = 1) (1 sive, but ible.	ntan-2-one) V ,2,4-trimethylk the formation	Hg Veighted	average:). Weighte	1.6compar ed average:
Evaporation rate Relative density Vapour density Explosive properties Oxidising properties Particle characteristics	: :	4-methylpentan-2-one Highest known value with butyl acetate 1.65 Highest known value 3.69 (Air = 1) The product itself is vapour or dust with a Product does not pre	mm Hg 15.75 e: 1.7 (4-n e: 4.1 (Air not explos air is poss	kPa 2.1 nethylpe = 1) (1 sive, but ible.	ntan-2-one) V ,2,4-trimethylk the formation	Hg Veighted	average:). Weighte	1.6compar ed average:

SECTION 10: Stability and reactivity

English (GB)	Europe 11/	18
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.2 Chemical stability	: The product is stable.	
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	i

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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 halogenated compounds metal oxide/ oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Product/ingredient name Result **Species** Dose **Exposure** dicopper oxide LC50 Inhalation Dusts and Rat 3.34 mg/l 4 hours mists LD50 Dermal Rat >2000 mg/kg 500 mg/kg LD50 Oral Rat Hydrocarbons, C9, aromatics > 0.1% LD50 Dermal Rabbit >3160 mg/kg cumene LD50 Oral Rat -3492 mg/kg Female LD50 Dermal Rat >2000 mg/kg rosin 7600 mg/kg LD50 Oral Rat 4 hours zinc oxide LC50 Inhalation Dusts and >5700 mg/m³ Rat mists LD50 Dermal Rat >2000 mg/kg LD50 Oral Rat >5000 mg/kg 4-methylpentan-2-one LC50 Inhalation Vapour Rat 4 hours 11 mg/l LD50 Dermal Rabbit >5000 mg/kg 2.08 g/kg LD50 Oral Rat >2000 mg/kg zineb (ISO) LD50 Oral Rat 4 hours ethylbenzene LC50 Inhalation Vapour Rat 17.8 mg/l LD50 Dermal Rabbit 17.8 g/kg LD50 Oral Rat 3.5 g/kg >2000 mg/kg copper(II) oxide LD50 Oral Rat 1,3-bis[12-hydroxy-octadecamide-N-LC50 Inhalation Dusts and Rat >5.08 mg/l 4 hours methylene]-benzene mists copper LC50 Inhalation Dusts and Rat >5.11 mg/l 4 hours mists : There are no data available on the mixture itself. **Conclusion/Summary**

Irritation/Corrosion	
Conclusion/Summary	
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
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SECTION 11: Toxicological information

	•				
Conclusion/Summary					
Skin	: There are no data availab				
Respiratory	: There are no data available on the mixture itself.				
<u>Mutagenicity</u>					
Conclusion/Summary	: There are no data availab	le on the mixtur	e itself.		
<u>Carcinogenicity</u>					
Conclusion/Summary	: There are no data availab	le on the mixtur	e itself.		
Reproductive toxicity					
Conclusion/Summary	: There are no data availab	le on the mixtur	e itself.		
Teratogenicity					
Conclusion/Summary	: There are no data availab	ole on the mixtur	e itself.		
Product/ing	gredient name	Category	Route of exposure	Target organs	
Information on likely routes of exposure	: Not available.				
Potential acute health effe	<u>ects</u>				
Inhalation	: Can cause central nervou dizziness. May cause res			cause drowsiness or	
Ingestion	: Harmful if swallowed. Ca	n cause central	nervous system (C	NS) depression.	
Skin contact	: Defatting to the skin. May reaction.	y cause skin dry	ness and irritation.	May cause an allergic skir	
Eye contact	: Causes serious eye dama	age.			
Symptoms related to the p	physical, chemical and toxico	logical charact	teristics		
Inhalation	: Adverse symptoms may in respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	nclude the follov	ving:		
Ingestion	: Adverse symptoms may in stomach pains	nclude the follow	wing:		
Skin contact	: Adverse symptoms may in pain or irritation redness dryness cracking blistering may occur	nclude the follow	wing:		
	Shotoning may booan				
Eye contact	 Adverse symptoms may in pain watering redness 	nclude the follow	wing:		
	: Adverse symptoms may in pain watering		-	<u>osure</u>	
	: Adverse symptoms may in pain watering redness		-	<u>osure</u>	
Delayed and immediate eff	: Adverse symptoms may in pain watering redness		-	<u>osure</u>	
Delayed and immediate eff <u>Short term exposure</u> Potential immediate	 Adverse symptoms may in pain watering redness iffects as well as chronic effect i Not available. 		-	<u>osure</u>	

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SECTION 11: Toxicological information

		-
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</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	:	\overline{M} ay cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.
Other information	:	Not available.
Prolonged or repeated contac	t m	av dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties	11.2.1	Endocrine	disrupting	properties
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Not available.

11.2.2 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
Hydrocarbons, C9, aromatics > 0.1% cumene	EC50 3.2 mg/l	Daphnia	48 hours
	LC50 9.2 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l	Daphnia - Daphnia	48 hours
	Fresh water	magna - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water		
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
1,3-bis[12-hydroxy-octadecamide-N-methylene]-	Acute LC50 >100 mg/l	Fish	96 hours
benzene			
copper	Acute LC50 810 ppb	Fish	96 hours

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

12.2 Persistence and degradability

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SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
■Yydrocarbons, C9, aromatics > 0.1% cumene	-	75 % - Readily - 28 days	-	-
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
⊮ ydrocarbons, C9, aromatics > 0.1% cumene	-	-	Readily
4-methylpentan-2-one	-	-	Readily
ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
rosin	1.9 to 7.7	-	High
4-methylpentan-2-one	1.9	-	Low
zineb (ISO)	1.3	-	Low
ethylbenzene	3.6	79.43	Low

12.4 Mobility in soil

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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	The classification of the product may meet the criteria for a hazardous waste.
European waste catalogu	EWC)

English (GB)	Europe	15/18
U ()	•	

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SECTION 13: Disposal considerations

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	European waste catalogue (EWC)	
Container	15 01 06 mixed packaging	
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.	

14. Transport information

-				
	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID 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	III	Ш		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, zinc oxide)	Not applicable.

Additional information

The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
: (D/E)
The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
: 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.

English (GB)	Europe	16/18

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14. Transport information

14.7 Maritime transport in : Not applicable. bulk according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

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.

Annex XVII - Restrictions : Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category P5c

E1

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

Full text of abbreviated H statements

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F 225	Highly flammable liquid and vapour.			
H226	Flammable liquid and vapour.			
H302	Harmful if swallowed.			
H304	May be fatal if swallowed and enters airways.			
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.			
H350	May cause cancer.			
H351	Suspected of causing cancer.			
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.			
H411	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.			
EUH066	Repeated exposure may cause skin dryness or cracking.			
Full text of classifications [CLP/GHS]				
Acute Tox. 4	ACUTE TOXICITY - Category 4			
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1			
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1			
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2			
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3			
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4			
Asp. Tox. 1	ASPIRATION HAZARD - Category 1			
Carc. 1B	CARCINOGENICITY - Category 1B			
Carc. 2	CARCINOGENICITY - Category 2			
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1			
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2			
Flam. Lig. 2	FLAMMABLE LIQUIDS - Category 2			
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3			
Skin Sens. 1	SKIN SENSITISATION - Category 1			
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE			
	Category 2			
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -			
	Category 3			

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<u>Disclaimer</u>

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