SAFETY DATA SHEET

Date of issue/Date of revision

: 16 December 2024

: 17.04 Version



France

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

1.1 Product identifier

Product name : SIGMA ECOFLEET 290 S BROWN **Product code** : 00249482

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

National advisory body/Poison Centre

Numéro de téléphone d'appel d'urgence : 01 45 42 59 59 (Association ORFILA, organisme agréé prévu au 4ème alinéa de l'article L231-7 du code du travail)

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. 2, H351 STOT SE 3, H335 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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SECTION 2: Hazards identification

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

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable 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. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
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
Supplemental label elements	: Repeated exposure may cause skin dryness or cracking.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requiren	nents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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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: 128601-23-0	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	EUH066: C ≥ 20%	[1] [2]
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	≥5.0 - ≤10	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]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤5.0	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, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
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]
copper	REACH #:	<1.0	Aquatic Acute 1, H400	M [Acute] = 1	[1]
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SECTION 3: Composition/information on ingredients

01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	Aquatic Chronic 3, H412	
	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

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 symptom	nd effects, both acute and delayed
Potential acute health effect	
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.

Ingestion : Harmful if swallowed. Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

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SECTION 4: Fire	st aid measures		
Eye contact	: Adverse symptoms may pain watering redness	<i>include the following:</i>	
Inhalation	: Adverse symptoms may respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	0	
Skin contact	: Adverse symptoms may pain or irritation redness dryness cracking blistering may occur	<i>include the following:</i>	
Ingestion	: Adverse symptoms may stomach pains	include the following:	
4.3 Indication of any i	mmediate medical attention and s	pecial treatment needed	
Notes to physician		ecomposition products in a fire, y need to be kept under medica	

	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	from the substance or mixture	
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion h a fire or if heated, a pressure increase will occur and the container may burst risk of a subsequent explosion. This material is very toxic to aquatic life with lasting effects. Fire water contaminated with this material must be contained prevented from being discharged to any waterway, sewer or drain.	, with the long
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides oxides of lead	
5.3 Advice for firefighters		
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the inc there is a fire. No action shall be taken involving any personal risk or without training. Move containers from fire area if this can be done without risk. Use spray to keep fire-exposed containers cool.	suitable
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SECTION 5: Firefighting measures

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

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 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

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 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.

 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

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

measures.

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	Ministry of Labor (France, 9/2023) [cuivre (fumées)]
	TWA 8 hours: 0.2 mg/m ³ . Form: Fume.
Hydrocarbons, C9, aromatics < 0.1% cumene	Ministry of Labor (France, 9/2023) [hydrocarbures en C6-C12]
	TWA 8 hours: 1000 mg/m³. Form: Vapour.
	STEL 15 minutes: 1500 mg/m ³ . Form: Vapour.
rosin	Ministry of Labor (France, 9/2023)
	TWA 8 hours: 0.1 mg/m ³ (expressed as formaldehyde).
4-methylpentan-2-one	Ministry of Labor (France, 9/2023) Carc 2.
	TWA 8 hours: 20 ppm.
	TWA 8 hours: 83 mg/m ³ .
	STEL 15 minutes: 208 mg/m ³ .
	STEL 15 minutes: 50 ppm.
xylene	Ministry of Labor (France, 9/2023) [xylènes, isomères mixtes,
	purs] Absorbed through skin.
	STEL 15 minutes: 442 mg/m ³ .
	STEL 15 minutes: 100 ppm.
	TWA 8 hours: 221 mg/m ³ .
	TWA 8 hours: 50 ppm.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	
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SECTION 8: Exposure controls/personal protection

Recommended monitoring	: Reference should be made to monitoring standards, such as the following: European
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
dicopper oxide	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
	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
Hydrocarbons, C9, aromatics < 0.1% cumene	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	11 mg/kg	General population	
	DNEL	Long term Oral	11 mg/kg	General population	Systemic
	DNEL	Long term Inhalation	32 mg/m³	General population	Systemic
4-methylpentan-2-one	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	Local
	DNEL	Long term Inhalation	14.7 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	83 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	83 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	155.2 mg/m ³	General population	Local
	DNEL	Short term Inhalation	155.2 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	208 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	208 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	4.2 mg/kg bw/day	General population	
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
	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
copper(II) oxide	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
	DNEL	Long term Oral	0.041 mg/kg bw/day	General population	
	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	
	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
			210 mg/ng bw/day		Systemic

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SECTION 8: Exposure controls/personal protection

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
xylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant	6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-

8.2 Exposure controls		
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust vent or other engineering controls to keep worker exposure to airborne contaminants any recommended or statutory limits. The engineering controls also need to ke vapour or dust concentrations below any lower explosive limits. Use explosion- ventilation equipment.	e contaminants below so need to keep gas, lse explosion-proof al products, before ing period. aminated clothing. cplace. Wash ons and safety cording to EN 166. d standard should be sment indicates this manufacturer, check ties. It should be different for different al substances, the en prolonged or
Individual protection measured	res	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, b eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated cloth 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.	hing.
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 sh worn at all times when handling chemical products if a risk assessment indicate is necessary. Considering the parameters specified by the glove manufacturer, during use that the gloves are still retaining their protective properties. It should noted that the time to breakthrough for any glove material may be different for d glove manufacturers. In the case of mixtures, consisting of several substances protection time of the gloves cannot be accurately estimated. When prolonged frequently repeated contact may occur, a glove with a protection class of 6	s this check be lifferent , the
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	(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.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>				
Physical state	: Liquid.			
Colour	: Brown.			
Odour	: Characteristic.			
Melting point/freezing point	: Not determined.			
Boiling point or initial boiling point and boiling range	: >37.78°C			
Flammability	: Not determined. There an	e no data availal	ble on the mix	ture itself.
Lower and upper explosion limit	: Not available.			
Flash point	: 🕅osed cup: 31°C			
Auto-ignition temperature	:			
	Ingredient name	°C	°F	Method
	zineb (ISO)	149	300.2	
Decomposition temperature	: Stable under recommend	led storage and l	handling cond	itions (see Section 7).
рН	: Not applicable. insoluble	in water.	-	

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SECTION 9: Physica	l and	chemical proj	perties						
Viscosity	:	Dynamic (room temp Kinematic (room tem Kinematic (40°C): >2	nperature)						
Solubility	:	х, <i>у</i>							
Media		Result							
cold water		Not soluble							
Partition coefficient n-octar water (log Pow)	nol/ :	Not applicable.							
Vapour pressure	:		Vapor	r Press	sure at 20°C	Vap	our pres	sure at 50°C	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		4-methylpentan-2-one	15.75128	2.1					
Relative density Particle characteristics	:	1.68							
Median particle size		Not applicable.							
0.2 Other information		Not applicable.							
9.2.1 Information with rega	rd to ph	ysical hazard class	es						
Explosive properties	:	The product itself is vapour or dust with a			the formation	of an ex _l	olosible n	nixture of	
Oxidising properties No additional information.	:	Product does not pre	esent an c	xidizing	hazard.				
SECTION 10: Stabilit	y and	reactivity							
10.1 Reactivity	-	specific test data rela	ated to rea	ctivity a	vailable for thi	s product	t or its ing	redients.	
10.2 Chemical stability	: The	e product is stable.							
10.3 Possibility of nazardous reactions	: Uno	der normal conditions	s of storag	e and u	se, hazardous	reaction	s 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.							
0.5 Incompatible materials						g exothei	mic reac	tions:	
10.6 Hazardous decomposition products	 Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ oxides 								

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SECTION 11: Toxicological information

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

The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly.

Harmful if swallowed.

Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation.

May cause drowsiness or dizziness.

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	-
	LD50 Oral	Rat	500 mg/kg	-
Hydrocarbons, C9, aromatics < 0.1%	LD50 Dermal	Rabbit -	>2000 mg/kg	-
cumene		Male,		
		Female		
	LD50 Oral	Rat	8400 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m ³	4 hours
	mists		Ū	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	_
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	_
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
copper(II) oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	mists		5g/i	

Acute toxicity estimates

Route	ATE value
Oral	1754.27 mg/kg
Dermal	133987.51 mg/kg
Inhalation (vapours)	125.28 mg/l
Inhalation (dusts and mists)	11.72 mg/l

Conclusion/Summary : Harmful if swallowed.

Irritation/Corrosion

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

Conclusion/Summary

Skin

: Based on available data, the classification criteria are not met.

Eyes

: Causes serious eye damage.

Respiratory : Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

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SECTION 11: Toxicological information

Product/ingredient name	Route of exposure	Species	Result
zineb (ISO)	skin	Guinea pig	Sensitising

Conclusion/Summary

: May cause an allergic skin reaction.

Respiratory

Skin

- : Based on available data, the classification criteria are not met.

Mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, C9, aromatics < 0.1% cumene 4-methylpentan-2-one zineb (ISO) xylene	Category 3 Category 3 Category 3 Category 3 Category 3	- - -	Respiratory tract irritation Narcotic effects Narcotic effects Respiratory tract irritation Respiratory tract irritation

Conclusion/Summary

May cause respiratory irritation.

May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

Based on available data, the classification criteria are not met.

2

Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C9, aromatics < 0.1% cumene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1

Conclusion/Summary

ŝ Based on available data, the classification criteria are not met.

Information on likely routes of exposure	: Not available.			
Potential acute health eff	ects			
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. 			
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.			
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.			
Eye contact	: Causes serious eye damage.			
Symptoms related to the physical, chemical and toxicological characteristics				

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SECTION 11: Toxicol	ogical information
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness
	cts as well as chronic effects from short and long-term exposure
Short term exposure Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
	: No known significant effects or critical hazards.
Potential chronic health effe	
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/o 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	: No known significant effects or critical hazards.
Other information	: Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations ma 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

11.2.1 Endocrine disrupting properties

Based on available data, the classification criteria are not met.

11.2.2 Other information

Not available.

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SECTION 12: Ecological information

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

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	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
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days

Conclusion/Summary

: Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	R	esult		Dose		Inoculum
Hydrocarbons, C9, aromatics < 0.1% cumene 4-methylpentan-2-one	- OECD 301F		8 % - 28 days 3 % - Readily - 28 days	6	-		-
Product/ingredient name			Aquatic half-life	Photo	lysis	Bic	degradability
Hydrocarbons, C9, aromatics - 4-methylpentan-2-one xylene	< 0.1% cumene		- - -	- - -		Re	adily adily adily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hydrocarbons, C9, aromatics < 0.1% cumene rosin	3.7 to 4.5	10 to 2500	High
	1.9 to 7.7	-	High
4-methylpentan-2-one	1.9	-	Low
zineb (ISO)	1.3		Low
xylene	3.12	7.4 to 18.5	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

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SECTION 12: Ecological information

Based on available data, the classification criteria are not met.

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

Product

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	

Hazardous waste

European	waste	catalogue	(EWC)

	Waste code	Waste designation
	08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
<u>P</u>	ackaging	

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Methods of disposal
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: 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) 15 01 06 mixed packaging		
Container			
Special precautions	taken when Empty conta residues ma Do not cut, v	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
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		III	
				10/00
English (GB)		Fra	nce	16/20

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SECTION 14: Transport information

=			
Yes.	Yes.	Yes.	Yes. The
			environmentally
			hazardous substance
			mark is not required.
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 \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special precuser	cautions for : 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.

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

Product/ingredient name	Entry Number(REACH)	
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Labelling

: Not applicable.

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

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SECTION 15: Regulatory information

National regulations						
Product/ingredient name		List name	Name on list	С	lassification	Notes
4-methylpentan-2-one		Ministry of Labor	-	C	arc 2	-
Social Security Code, Articles L 461-1 to L 461-7	:	: Hydrocarbons, C9, aromatics < 0.1% cumene rosin 4-methylpentan-2-one xylene RG 4Bis, RG 84 RG 65, RG 66 RG 84 RG 4bis, RG 84				G 66
Reinforced medical surveillance	:	Act of July 11, 1977 det surveillance: not application	5	activities	which require re	einforced medical
References	:	Reinforced medical surv specific rules for the pre- and amending the Labo to prevention of chemica 26 February 2004 on the 88-1231 of 29/12/1988 of 95-517 of 15 May 1997, article: R231-53 ; Labou 232-5 to R 232-5-14 ; La 231-54 to R 231-54-9 ; Labour 232-5 to R 232-5-14 ; La 231-54 to R 231-54-9 ; Labour Labour code: provisions R234-16 ; Labour code 19 July 1976 amending classified installations for professional diseases a	evention of risks from ur code ; Decree no al risks and amendin e placing on the marelating to poisonous relating to the class ur code: Occupation abour code: Preven Labour code: Preven code: provisions app code: provisions app code: provisions app code: not provision con contact and contact and contact and implementing contact and the protection of t	m carcino b. 2003-1 ng the La rket of bi s prepara sification lal air (ve tion of ch ntion of f plicable to g workers ons: Art. F decree of the enviro	ogens, mutagen 254 of 23 Dece abour code ; De iocidal products ations and subs of dangerous w intilation, air pur nemical risk: Art rires: Art.R232-1 o women: Art. L s: Art. L 234-3 to R 232-2 à R 232 f 21 September conment ; Tables	s and reprotoxics mber 2003 relating cree no. 2004-187 of ; Decree no. tances. ; Decree no. vaste. ; Labour code ification): Art. R .R231-51 and R 2-13 to R 232-12-29 .234-3 to L 236-6 ; o L 236-6; Art: 2-2-7 ; Law 76-663 of 1977 relating to o f anticipated

- 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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

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SECTION 16: Other information

Flam. Liq. 3, H226 Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317	On basis of test data Calculation method
Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317	Calculation method
Eye Dam. 1, H318 Skin Sens. 1, H317	
Skin Sens. 1, H317	Calculation method
	Calculation method
Carc. 2, H351	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	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.
H351	Suspected of causing cancer.
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.
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 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
•	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
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. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 3
History	
-	2024
Date of issue/ Date of : 16 December 2 revision	2024
Date of previous issue : 25 October 202	24
Prepared by : EHS	
Version : 17.04	

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SECTION 16: Other information

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.