

SAFETY DATA SHEET

Date of issue/Date of revision

: 5 November 2025

Version

: 1



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

1.1 Product identifier

Product name : SIGMA SAILADVANCE GX BROWN

Product code : 000001201499

Other means of identification

00476137

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** : Coating.

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. 2, H351

STOT SE 3, H335

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

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.

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SECTION 2: Hazards identification

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

2.2 Label elements

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.
Suspected of causing 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; rosin; zineb (ISO); 4-methylpentan-2-one; Hydrocarbons, C9, aromatics > 0.1% cumene; xylene; Terpeneol and 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

: Not applicable.

Special packaging requirements

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 according to Regulation (EC) No. 1907/2006, Annex XIII

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

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SECTION 2: Hazards identification

Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006. : Based on available data, the classification criteria are not met.

Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause 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	Type
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]
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]
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]
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	[1] [2]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≥5.0 - ≤9.7	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%	[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]
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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]

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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 - ≤5.0	STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
Terpineol	REACH #: 01-2119553062-49 EC: 232-268-1 CAS: 8000-41-7	≥0.10 - ≤2.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
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]
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 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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.

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SECTION 4: First aid measures

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 effects

Eye contact : Causes serious eye damage.
Inhalation : 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.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain
watering
redness
Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur
Ingestion : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.
Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from 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.

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SECTION 5: Firefighting measures

Hazardous combustion products : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides
sulfur oxides
metal oxide/oxides

5.3 Advice for firefighters

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, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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.

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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 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 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, 1/2024) [copper fume] TWA 8 hours: 0.2 mg/m³. Form: Fume.
rosin	ACGIH TLV (United States, 1/2024) [resin acids] Skin sensitiser , Inhalation sensitiser. TWA 8 hours: 0.001 mg/m³ (as total Resin acids). Form: Inhalable fraction.
4-methylpentan-2-one	EU OEL (Europe, 1/2022) TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m³. STEL 15 minutes: 50 ppm.

English (GB)

Europe

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SECTION 8: Exposure controls/personal protection	
Hydrocarbons, C9, aromatics > 0.1% cumene	STEL 15 minutes: 208 mg/m³. EU OEL (Europe) TWA: 19 ppm. TWA: 100 mg/m³.
xylene	EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.
1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene	ACGIH TLV (United States) TWA: 3 mg/m³ (Respirable fraction). TWA: 10 mg/m³ (Total dust).

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European 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/DMELs

Product/ingredient name	Exposure	Value
dicopper oxide	DNEL - Workers - Long term - Inhalation	Local 1 mg/m³
	DNEL - Workers - Long term - Inhalation	Systemic 1 mg/m³
	DNEL - Workers - Long term - Dermal	Systemic 137 mg/kg bw/day
	DNEL - General population - Long term - Oral	Systemic 0.041 mg/kg bw/day
	DNEL - General population - Short term - Oral	Systemic 0.082 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Systemic 4.2 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Systemic 11.8 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Local 14.7 mg/m³
	DNEL - General population - Long term - Inhalation	Systemic 14.7 mg/m³
	DNEL - Workers - Long term - Inhalation	Local 83 mg/m³
4-methylpentan-2-one	DNEL - Workers - Long term - Inhalation	Systemic 83 mg/m³
	DNEL - General population - Short term - Inhalation	Local 155.2 mg/m³
	DNEL - General population - Short term - Inhalation	Systemic 155.2 mg/m³
	DNEL - Workers - Short term - Inhalation	Local 208 mg/m³
	DNEL - Workers - Short term - Inhalation	Systemic 208 mg/m³
	DNEL - General population - Long term - Oral	Systemic 4.2 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Systemic 150 mg/m³
	DNEL - Workers - Long term - Dermal	Systemic 25 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic 32 mg/m³
	DNEL - General population - Long term - Dermal	Systemic 11 mg/kg bw/day
Hydrocarbons, C9, aromatics > 0.1% cumene	DNEL - General population - Long term - Oral	Systemic 11 mg/kg bw/day
	DNEL - General population - Long term - Oral	Systemic 5 mg/kg bw/day
	DNEL - General population - Long term - Oral	Systemic 5 mg/kg bw/day
	DNEL - General population - Long term - Local	Local 65.3 mg/m³
xylene	DNEL - General population - Long term - Local	Local 65.3 mg/m³
	DNEL - General population - Long term - Local	Local 65.3 mg/m³
	DNEL - General population - Long term - Local	Local 65.3 mg/m³
	DNEL - General population - Long term - Local	Local 65.3 mg/m³

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copper(II) oxide	Inhalation		
	DNEL - General population - Long term - Inhalation	Systemic	65.3 mg/m³
	DNEL - General population - Long term - Dermal	Systemic	125 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Systemic	212 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Local	221 mg/m³
	DNEL - Workers - Long term - Inhalation	Systemic	221 mg/m³
	DNEL - General population - Short term - Inhalation	Local	260 mg/m³
	DNEL - General population - Short term - Inhalation	Systemic	260 mg/m³
	DNEL - Workers - Short term - Inhalation	Local	442 mg/m³
	DNEL - Workers - Short term - Inhalation	Systemic	442 mg/m³
	DNEL - Workers - Long term - Inhalation	Local	1 mg/m³
	DNEL - Workers - Long term - Inhalation	Systemic	1 mg/m³
	DNEL - Workers - Long term - Dermal	Systemic	137 mg/kg bw/day
	DNEL - General population - Long term - Oral	Systemic	0.041 mg/kg bw/day
	DNEL - General population - Short term - Oral	Systemic	0.082 mg/kg bw/day
Terpineol	DNEL - General population - Long term - Oral	Systemic	2.69 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Systemic	2.69 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Systemic	6.36 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Systemic	7.96 mg/m³
	DNEL - Workers - Long term - Inhalation	Systemic	44.8 mg/m³
copper	DNEL - General population - Long term - Dermal	Systemic	137 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Systemic	137 mg/kg bw/day
	DNEL - General population - Short term - Dermal	Systemic	273 mg/kg bw/day
	DNEL - Workers - Short term - Dermal	Systemic	273 mg/kg bw/day

PNECs

Product/ingredient name	Compartment Detail - Method	Value
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
rosin	Sewage Treatment Plant	0.23 mg/l
	Fresh water - Assessment Factors	0.002 mg/l
	Marine water - Assessment Factors	0 mg/l
	Sewage Treatment Plant - Assessment Factors	1000 mg/l
	Fresh water sediment - Equilibrium Partitioning	0.007 mg/kg dwt
4-methylpentan-2-one	Marine water sediment - Equilibrium Partitioning	0.001 mg/kg dwt
	Soil - Equilibrium Partitioning	0 mg/kg dwt
	Fresh water - Assessment Factors	0.6 mg/l
	Marine water - Assessment Factors	0.06 mg/l
	Sewage Treatment Plant - Assessment Factors	27.5 mg/l
zinc oxide	Fresh water sediment - Equilibrium Partitioning	8.27 mg/kg
	Marine water sediment - Equilibrium Partitioning	0.83 mg/kg
	Soil - Equilibrium Partitioning	1.3 mg/kg
	Fresh water - Sensitivity Distribution	20.6 µg/l
	Marine water - Sensitivity Distribution	6.1 µg/l
xylene	Fresh water sediment - Sensitivity Distribution	117 mg/kg dwt
	Sewage Treatment Plant - Assessment Factors	52 µg/l
	Marine water sediment - Assessment Factors	56.5 mg/kg dwt
	Soil - Sensitivity Distribution	35.6 mg/kg dwt
	Fresh water	0.327 mg/l
	Marine water	0.327 mg/l

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	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 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

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

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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

Appearance

Physical state : Liquid.
Colour : Brown.
Odour : Aromatic. [Strong]
Melting point/freezing point : Not determined.
Boiling point or initial boiling point and boiling range : >37.78°C
Flammability : Not determined. There are no data available on the mixture itself.
Lower and upper explosion limit : Not available.
Flash point : Closed cup: 27°C
Auto-ignition temperature :

Ingredient name	°C	°F	Method
zineb (ISO)	149	300.2	

Decomposition temperature : Stable under recommended storage and handling conditions (see Section 7).
pH : Not applicable. insoluble in water.
Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): >400 mm²/s
Kinematic (40°C): >21 mm²/s
Viscosity : > 100 s (ISO 6mm)
Solubility :

Media	Result
cold water	Not soluble

Partition coefficient n-octanol/ water (log Pow) : Not applicable.

Vapour pressure	Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	4-methylpentan-2-one	15.75128	2.1				

Relative density : 1.74

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

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SECTION 9: Physical and chemical properties

Oxidising properties : Product does not present an oxidizing hazard.
No additional information.

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

11.1 Information on 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.

Acute toxicity		
Product/ingredient name	Result	Dose / Exposure
dicopper oxide	Rat - Oral - LD50	500 mg/kg
	Rat - Dermal - LD50	>2000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists	3.34 mg/l [4 hours]
rosin	Rat - Oral - LD50	7600 mg/kg
	Rat - Dermal - LD50	>2000 mg/kg
zineb (ISO)	Rat - Oral - LD50	>2000 mg/kg
4-methylpentan-2-one	Rat - Oral - LD50	2.08 g/kg
	Rabbit - Dermal - LD50	>5000 mg/kg
	Rat - Inhalation - LC50 Vapour	11 mg/l [4 hours]
Hydrocarbons, C9, aromatics > 0.1% cumene	Rat - Female - Oral - LD50	3492 mg/kg
	Rabbit - Dermal - LD50	>3160 mg/kg
zinc oxide	Rat - Oral - LD50	>5000 mg/kg
	Rat - Dermal - LD50	>2000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists	>5700 mg/m³ [4 hours]
xylene	Rat - Oral - LD50	4.3 g/kg
	Rabbit - Dermal - LD50	1.7 g/kg
copper(II) oxide	Rat - Oral - LD50	>2000 mg/kg
Terpineol	Rat - Oral - LD50	4300 mg/kg
copper	Rat - Inhalation - LC50 Dusts and mists	>5.11 mg/l [4 hours]
1,3-bis[12-hydroxy-octadecamide-	Rat - Inhalation - LC50 Dusts and mists	>5.08 mg/l [4 hours]
English (GB)		Europe 12/20

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SECTION 11: Toxicological information

N-methylene]-benzene		
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Acute toxicity estimates

Route	ATE value
Oral	1394.44 mg/kg
Dermal	49920.83 mg/kg
Inhalation (vapours)	88.85 mg/l
Inhalation (dusts and mists)	9.31 mg/l

Conclusion/Summary : Harmful if swallowed.

Irritation/Corrosion

Product/ingredient name	Result
xylene	Rabbit - Skin - Moderate irritant Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours
Terpineol	Rabbit - Skin - Irritant

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

Product/ingredient name	Test	Result
zineb (ISO)	Guinea pig - skin	Sensitising
Terpineol	Guinea pig - skin OECD 406	Sensitising

Conclusion/Summary

Skin : May cause an allergic skin reaction.
Respiratory : 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
zineb (ISO)	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Narcotic effects
Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation

Conclusion/Summary :

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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SECTION 11: Toxicological information

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

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

Information on likely routes of exposure : Not available.

- Potential acute health effects**
- Inhalation** : May cause respiratory irritation.
 - Ingestion** : Harmful if swallowed.
 - 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**
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
 - 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

Delayed and immediate effects 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.
 - Potential delayed effects** : No known significant effects or critical hazards.

- Potential chronic health effects**
- 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** : 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.

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SECTION 11: Toxicological information

Other information	: Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of 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.
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11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

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	Dose / Exposure
dicopper oxide	LC50	Fish	0.003 mg/l [96 hours]
4-methylpentan-2-one	Acute - LC50	Fish	>179 mg/l [96 hours]
Hydrocarbons, C9, aromatics	EC50	Daphnia	3.2 mg/l [48 hours]
> 0.1% cumene	LC50	Fish	9.2 mg/l [96 hours]
zinc oxide	Acute - EC50 - Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	0.481 mg/l [48 hours]
	Acute - EC50	Algae	0.17 mg/l [72 hours]
	Chronic - NOEC - Fresh water	Algae	0.017 mg/l [72 hours]
copper	Acute - LC50	Fish	810 ppb [96 hours]
	Chronic - EC10	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	8.1 µg/l [21 days]
1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene	Acute - LC50	Fish	>100 mg/l [96 hours]

Conclusion/Summary	: Very toxic to aquatic life with long lasting effects.
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12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose / Inoculum
4-methylpentan-2-one	OECD 301F	83% [28 days] - Readily	
Hydrocarbons, C9, aromatics	-	75% [28 days] - Readily	
> 0.1% cumene			

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SECTION 12: Ecological information

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

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
rosin	1.9 to 7.7	-	High
zineb (ISO)	1.3	-	Low
4-methylpentan-2-one	1.9	-	Low
xylene	3.12	7.4 to 18.5	Low
Terpineol	2.6	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
zineb (ISO)	2.7	508.346
4-methylpentan-2-one	1.6	40.9047

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

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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	:
European waste catalogue (EWC)	

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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.
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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	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(dicopper oxide)	Not applicable.

Additional information	
ADR/RID	: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2.
Tunnel code	: (D/E)
ADN	: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2.
IMDG	: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
	:

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SECTION 14: Transport information

14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Maritime transport in bulk according to IMO instruments	: Not applicable.

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.

Other EU regulations

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c
E1

15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.
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SECTION 16: Other information

 Indicates information that has changed from previously issued version.
Abbreviations and acronyms

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SECTION 16: Other information

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

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.
H350	May cause cancer.
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.
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. 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

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SECTION 16: Other information

Date of issue/ Date of revision : 5 November 2025

Date of previous issue : No previous validation

Prepared by : EHS

Version : 1

Disclaimer

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