

SAFETY DATA SHEET

Date of issue/Date of revision

: 28 April 2025

Version

: 6



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

1.1 Product identifier

Product name : SIGMARINE 48 GREEN 4171

Product code : 000001161543

Other means of identification

00250779; 00479593

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

Skin Irrit. 2, H315

Eye Dam. 1, H318

Resp. Sens. 1, H334

Skin Sens. 1, H317

Carc. 1B, H350

Repr. 1B, H360D

STOT SE 3, H336

STOT RE 1, H372


Aquatic Chronic 2, H411

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SECTION 2: Hazards identification

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : ☒ Flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause drowsiness or dizziness.
May cause cancer.
May damage the unborn child.
Causes damage to organs through prolonged or repeated exposure.
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

Hazardous ingredients : ☒ naphtha (petroleum), hydrosulphurized heavy Note P ; phthalic anhydride; 2-ethylhexanoic acid, zirconium salt; butanone oxime and cobalt bis(2-ethylhexanoate)

Supplemental label elements : ☒ Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Restricted to professional users.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

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SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do 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
naphtha (petroleum), hydrodesulphurized heavy Note P	EC: 265-185-4 CAS: 64742-82-1 Index: 649-330-00-2	≥10 - ≤25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	REACH #: 01-2119458049-33 EC: 919-446-0 CAS: 64742-82-1	≥10 - <20	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 25%	[1] [2]
phthalic anhydride	REACH #: 01-2119457017-41 EC: 201-607-5 CAS: 85-44-9 Index: 607-009-00-4	≥1.0 - ≤5.0	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Oral] = 1530 mg/kg	[1] [2]
2-ethylhexanoic acid, zirconium salt	REACH #: 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9 Index: 607-230-00-6	≤1.0	Repr. 1B, H360D	-	[1] [2]
butanone oxime	REACH #: 01-2119539477-28 EC: 202-496-6 CAS: 96-29-7 Index: 616-014-00-0	<1.0	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350 STOT SE 1, H370 (upper respiratory tract) STOT SE 3, H336 STOT RE 2, H373 (blood system)	ATE [Oral] = 100 mg/kg ATE [Dermal] = 1100 mg/kg	[1]
cobalt bis	REACH #:	<0.30	Eye Irrit. 2, H319	M [Acute] = 1	[1] [2]

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SECTION 3: Composition/information on ingredients

(2-ethylhexanoate)	01-2119524678-29 EC: 205-250-6 CAS: 136-52-7 Index: 607-230-00-6		Skin Sens. 1A, H317 Repr. 1B, H360FD Aquatic Acute 1, H400 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.		
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
 - [2] Substance with a workplace exposure limit
- Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

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SECTION 4: First aid measures

Inhalation : Adverse symptoms may include the following:
wheezing and breathing difficulties
asthma
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced foetal weight
increase in foetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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 toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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

5.3 Advice for firefighters

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SECTION 5: Firefighting measures

Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, 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.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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SECTION 7: Handling and storage

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe 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. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.
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

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
<div>Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene</div> <div>phthalic anhydride</div> <div>2-ethylhexanoic acid, zirconium salt</div> <div>cobalt bis(2-ethylhexanoate)</div>	<div>IPEL (Europe) TWA: 52 ppm (hydrocarbons). Form: Vapour. TWA: 300 mg/m³ (hydrocarbons). Form: Vapour.</div> <div>ACGIH TLV (United States, 1/2024) A4. Absorbed through skin , Skin sensitiser , Inhalation sensitiser. TWA 8 hours: 0.002 mg/m³. Form: Inhalable fraction and vapor. STEL 15 minutes: 0.005 mg/m³. Form: Inhalable fraction and vapor. SL: 0.05 mg/100cm².</div> <div>ACGIH TLV (United States, 1/2024) [Zirconium and compounds] A4. TWA 8 hours: 5 mg/m³ (as Zr). STEL 15 minutes: 10 mg/m³ (as Zr).</div> <div>ACGIH TLV (United States, 1/2024) [cobalt and inorganic compounds] A3. Skin sensitiser , Inhalation sensitiser. TWA 8 hours: 0.02 mg/m³ (as Co).</div>

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
<div>Naaphtha (petroleum), hydrodesulphurized heavy Note P</div> <div>Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene</div>	DNEL - Workers - Long term - Inhalation	Effects: Systemic 1286 mg/m³
	DNEL - General population - Long term - Inhalation	Effects: Systemic 0.41 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Systemic 1.9 mg/m³
	DNEL - General population - Long term - Inhalation	Effects: Local 178.57 mg/m³
	DNEL - General population - Short term - Inhalation	Effects: Local 640 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Local 837.5 mg/m³
	DNEL - Workers - Short term - Inhalation	Effects: Local 1066.67 mg/m³
	DNEL - General population - Short term - Inhalation	Effects: Systemic 570 mg/m³
	DNEL - Workers - Short term - Inhalation	Effects: Systemic 570 mg/m³
	DNEL - General population - Long term - Dermal	Effects: Systemic 12 mg/kg bw/day
	DNEL - General population - Long term - Oral	Effects: Systemic 21 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Effects: Systemic 21 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Effects: Systemic 330 mg/m³
	DNEL - Workers - Long term - Dermal	Effects: Systemic 21 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Effects: Systemic 71 mg/m³

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SECTION 8: Exposure controls/personal protection

phthalic anhydride	DNEL - General population - Long term - Dermal	Effects: Systemic	12 mg/kg bw/day
	DNEL - General population - Long term - Oral	Effects: Systemic	21 mg/kg bw/day
	DNEL - Workers - Short term - Inhalation	Effects: Systemic	570 mg/m³
	DNEL - General population - Short term - Inhalation	Effects: Systemic	570 mg/m³
	DNEL - General population - Short term - Oral	Effects: Systemic	25 mg/kg bw/day
2-ethylhexanoic acid, zirconium salt	DNEL - General population - Long term - Oral	Effects: Systemic	5 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Effects: Systemic	5 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Effects: Systemic	8.7 mg/m³
	DNEL - Workers - Long term - Dermal	Effects: Systemic	14 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Effects: Systemic	49.4 mg/m³
butanone oxime	DNEL - General population - Long term - Inhalation	Effects: Systemic	0.58 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Systemic	2.351 mg/m³
	DNEL - General population - Long term - Oral	Effects: Systemic	0.167 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Effects: Systemic	0.167 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Effects: Systemic	0.333 mg/kg bw/day
cobalt bis (2-ethylhexanoate)	DNEL - General population - Long term - Inhalation	Effects: Local	0.7 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Local	2.82 mg/m³
	DMEL - General population - Long term - Oral	Effects: Systemic	1.6 µg/kg bw/day
	DMEL - Workers - Long term - Dermal	Effects: Systemic	4 µg/kg bw/day
	DMEL - General population - Long term - Inhalation	Effects: Systemic	4.82 µg/m³
	DMEL - Workers - Long term - Inhalation	Effects: Systemic	28 µg/m³
	DNEL - General population - Long term - Inhalation	Effects: Local	0.43 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Local	0.9 mg/m³
	DNEL - General population - Long term - Inhalation	Effects: Local	37 µg/m³
	DNEL - General population - Long term - Oral	Effects: Systemic	175 µg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Effects: Local	235.1 µg/m³

PNECs

Product/ingredient name	Compartment Detail - Method	Value
phthalic anhydride	Fresh water - Assessment Factors	1 mg/l
	Marine water - Assessment Factors	0.1 mg/l
	Sewage Treatment Plant - Assessment Factors	10 mg/l
	Fresh water sediment - Equilibrium Partitioning	3.8 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	0.38 mg/kg dwt
butanone oxime	Soil - Equilibrium Partitioning	0.173 mg/kg dwt
	Fresh water - Assessment Factors	0.256 mg/l
	Sewage Treatment Plant - Assessment Factors	177 mg/l
cobalt bis(2-ethylhexanoate)	Fresh water - Sensitivity Distribution	0.6 µg/l
	Marine water - Sensitivity Distribution	2.36 µg/l
	Sewage Treatment Plant - Assessment Factors	0.37 mg/l
	Fresh water sediment - Sensitivity Distribution	9.5 mg/kg dwt
	Marine water sediment - Sensitivity Distribution	9.5 mg/kg dwt
	Soil - Sensitivity Distribution	10.9 mg/kg dwt

8.2 Exposure controls

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SECTION 8: Exposure controls/personal protection

- 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** : Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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.

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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 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.
<div><div><div></div></div><div>Causes serious eye damage.</div><div>Causes skin irritation.</div><div>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</div><div>May cause an allergic skin reaction.</div><div>May cause cancer.</div><div>May damage the unborn child.</div><div>May cause drowsiness or dizziness.</div><div>Causes damage to organs through prolonged or repeated exposure.</div></div>

Product/ingredient name	Result	Dose / Exposure
<div><div></div><div>naphtha (petroleum), hydrodesulphurized heavy Note P</div></div>	Rat - Oral - LD50	>5000 mg/kg
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	Rabbit - Dermal - LD50	>2000 mg/kg
	Rat - Oral - LD50	>15000 mg/kg
phthalic anhydride	Rat - Oral - LD50	1530 mg/kg
2-ethylhexanoic acid, zirconium salt	<u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity)	
	Rabbit - Dermal - LD50	>5 g/kg
butanone oxime	Rat - Oral - LD50	>5 g/kg
	<u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity)	
cobalt bis(2-ethylhexanoate)	Rabbit - Dermal - LD50	1100 mg/kg
	Rat - Oral - LD50	100 mg/kg
	<u>Toxic effects:</u> Skin After topical exposure - Primary irritation	>5 g/kg
	Rat - Oral - LD50	3129 mg/kg

Acute toxicity estimates

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SECTION 11: Toxicological information

Route	ATE value
Oral	12771.68 mg/kg

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

Irritation/Corrosion

Conclusion/Summary

Skin : Causes skin irritation.

Eyes : Causes serious eye damage.

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

Respiratory or skin sensitization

Conclusion/Summary

Skin : May cause an allergic skin reaction.

Respiratory : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Mutagenicity

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

Carcinogenicity

May cause cancer.

Reproductive toxicity

May damage the unborn child.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Phaphtha (petroleum), hydrodesulphurized heavy Note P	Category 3	-	Narcotic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	Category 3	-	Narcotic effects
phthalic anhydride	Category 3	-	Respiratory tract irritation
butanone oxime	Category 1	-	upper respiratory tract
-	Category 3	-	Narcotic effects

Conclusion/Summary :

May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Phaphtha (petroleum), hydrodesulphurized heavy Note P	Category 1	-	-
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	Category 1	inhalation	central nervous system (CNS)
butanone oxime	Category 2	-	blood system

Conclusion/Summary :

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Product/ingredient name	Result
Phaphtha (petroleum), hydrodesulphurized heavy Note P	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	ASPIRATION HAZARD - Category 1

Conclusion/Summary :

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

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SECTION 11: Toxicological information

Information on likely routes of exposure : Not available.

Potential acute health effects

- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Ingestion** : Can cause central nervous system (CNS) depression.
- Skin contact** : Causes skin irritation. Defatting to the skin. 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:
wheezing and breathing difficulties
asthma
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations
- 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

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General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage the unborn child.
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.

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
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	Chronic - NOEC - Fresh water	Daphnia - Daphnia	0.097 mg/l [21 days]
2-ethylhexanoic acid, zirconium salt	Acute - LC50	Fish	>100 mg/l [96 hours]

Conclusion/Summary : Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose / Inoculum
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	OECD 301 F [Ready Biodegradability - Manometric Respirometry Test]	75% [28 days] - Readily	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	-	-	Readily

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SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Phaphtha (petroleum), hydrodesulphurized heavy	-	10 to 2500	High
Note P			
phthalic anhydride	1.6	-	Low
butanone oxime	0.63	5.01	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
Phthalic anhydride	1.56	36.3099
butanone oxime	1.43	27.1042
cobalt bis(2-ethylhexanoate)	1.82	66.4852

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)

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.

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SECTION 13: Disposal considerations

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.

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.	(Naphtha (petroleum), hydrodesulfurized heavy)	Not applicable.

Additional information

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

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.
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14.7 Maritime transport in bulk according to IMO instruments	: Not applicable.
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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)
 SIGMARINE 48 GREEN 4171	3
	28
	30
2-ethylhexanoic acid, zirconium salt	30
butanone oxime	28

Labelling : Restricted to professional users.

Explosive precursors : Not applicable.


Ozone depleting substances (EU 2024/590)

Not listed.

Seveso Directive


This product is controlled under the Seveso Directive.

Danger criteria

Category
 P5c
E2

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

 Indicates information that has changed from previously issued version.

Abbreviations and acronyms

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- PBT = Persistent, Bioaccumulative and Toxic
- vPvB = Very Persistent and Very Bioaccumulative
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- IMDG = International Maritime Dangerous Goods
- IATA = International Air Transport Association

Full text of abbreviated H statements

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SECTION 16: Other information

<div><div></div><div>H225</div><div>H226</div><div>H301</div><div>H302</div><div>H304</div><div>H312</div><div>H315</div><div>H317</div><div>H318</div><div>H319</div><div>H334</div><div>H335</div><div>H336</div><div>H350</div><div>H360D</div><div>H360FD</div><div>H370</div><div>H372</div><div>H373</div><div>H400</div><div>H411</div><div>H412</div><div>EUH066</div></div>	<div>Highly flammable liquid and vapour.</div> <div>Flammable liquid and vapour.</div> <div>Toxic if swallowed.</div> <div>Harmful if swallowed.</div> <div>May be fatal if swallowed and enters airways.</div> <div>Harmful in contact with skin.</div> <div>Causes skin irritation.</div> <div>May cause an allergic skin reaction.</div> <div>Causes serious eye damage.</div> <div>Causes serious eye irritation.</div> <div>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</div> <div>May cause respiratory irritation.</div> <div>May cause drowsiness or dizziness.</div> <div>May cause cancer.</div> <div>May damage the unborn child.</div> <div>May damage fertility. May damage the unborn child.</div> <div>Causes damage to organs.</div> <div>Causes damage to organs through prolonged or repeated exposure.</div> <div>May cause damage to organs through prolonged or repeated exposure.</div> <div>Very toxic to aquatic life.</div> <div>Toxic to aquatic life with long lasting effects.</div> <div>Harmful to aquatic life with long lasting effects.</div> <div>Repeated exposure may cause skin dryness or cracking.</div>
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Full text of classifications [CLP/GHS]

<div><div></div><div>Acute Tox. 3</div><div>Acute Tox. 4</div><div>Aquatic Acute 1</div><div>Aquatic Chronic 2</div><div>Aquatic Chronic 3</div><div>Asp. Tox. 1</div><div>Carc. 1B</div><div>Eye Dam. 1</div><div>Eye Irrit. 2</div><div>Flam. Liq. 2</div><div>Flam. Liq. 3</div><div>Repr. 1B</div><div>Resp. Sens. 1</div><div>Skin Irrit. 2</div><div>Skin Sens. 1</div><div>Skin Sens. 1A</div><div>STOT RE 1</div><div>STOT RE 2</div><div>STOT SE 1</div><div>STOT SE 3</div></div>	<div>ACUTE TOXICITY - Category 3</div> <div>ACUTE TOXICITY - Category 4</div> <div>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1</div> <div>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2</div> <div>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3</div> <div>ASPIRATION HAZARD - Category 1</div> <div>CARCINOGENICITY - Category 1B</div> <div>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1</div> <div>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</div> <div>FLAMMABLE LIQUIDS - Category 2</div> <div>FLAMMABLE LIQUIDS - Category 3</div> <div>REPRODUCTIVE TOXICITY - Category 1B</div> <div>RESPIRATORY SENSITISATION - Category 1</div> <div>SKIN CORROSION/IRRITATION - Category 2</div> <div>SKIN SENSITISATION - Category 1</div> <div>SKIN SENSITISATION - Category 1A</div> <div>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1</div> <div>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2</div> <div>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1</div> <div>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3</div>
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History

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Date of previous issue	: 20 September 2024

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SECTION 16: Other information

Prepared by : EHS
Version : 6

Disclaimer

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.