SAFETY DATA SHEET

Date of issue/Date of revision

: 13 June 2022

Version : 3.01



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

1.1 Product identifier

Product name	: SIGMARINE 48 REDBROWN
Product code	: 00437429

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	: 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 : Product.Stew
 - : Product.Stewardship.EMEA@ppg.com

responsible for this SDS

National contact

PPG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000

1.4 Emergency telephone number

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Flam. Liq. 3, H226

Carc. 1B, H350 STOT SE 3, H336 STOT RE 1, H372 Aquatic Chronic 2, H411

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	anger	
Hazard statements	lammable liquid and vapour. lay cause drowsiness or dizziness. lay cause cancer. auses damage to organs through prolonged or repeated exposure. oxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	ear protective gloves, protective clothing and eye or face protection. Keep eat, hot surfaces, sparks, open flames and other ignition sources. No smoking elease to the environment.	
Response	ollect spillage.	
Storage	tore in a well-ventilated place. Keep container tightly closed.	
Disposal	ispose of contents and container in accordance with all local, regional, nation ternational regulations.	onal and
	280, P210, P273, P391, P403 + P233, P501	
Hazardous ingredients	aphtha (petroleum), hydrodesulphurized heavy Nota(s) P utanone oxime	
Supplemental label elements	ontains butanone oxime, 2-ethylhexanoic acid, cobalt salt and Octadecanoi 2-hydroxy-, reaction products with ethylenediamine. May produce an allergic	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	estricted to professional users.	
Special packaging requirem		
Containers to be fitted with child-resistant fastenings	ot applicable.	
Tactile warning of danger	ot applicable.	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB	his mixture does not contain any substances that are assessed to be a PBT	or a vPvB.
Other hazards which do not result in classification	rolonged 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
Paphtha (petroleum), hydrodesulphurized heavy Nota(s) P	EC: 265-185-4 CAS: 64742-82-1 Index: 649-330-00-2	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
2-ethylhexanoic acid, zirconium salt	REACH #: 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9	≥1.0 - <3.0	Repr. 2, H361d (oral)	-	[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] [2]
2-ethylhexanoic acid, cobalt salt	EC: 237-015-9 CAS: 13586-82-8	≤0.30	Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361f Aquatic Chronic 2, H411	-	[1] [2]
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0	≤0.30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
calcium bis (2-ethylhexanoate)	REACH #: 01-2119978297-19 EC: 205-249-0 CAS: 136-51-6	≤0.30	Eye Dam. 1, H318 Repr. 2, H361d (oral)	-	[1]
2-ethylhexanoic acid	REACH #: 01-2119488942-23 EC: 205-743-6 CAS: 149-57-5 Index: 607-230-00-6	≤0.30	Repr. 2, H361d See Section 16 for the full text of the H	-	[1] [2]
			statements declared above.		

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SECTION 3: Composition/information on ingredients

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.

Туре

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	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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 : No known significant effects or critical hazards. Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Skin contact : Defatting to the skin. May cause skin dryness and irritation. Ingestion : Can cause central nervous system (CNS) depression. Over-exposure signs/symptoms : Can cause central nervous system (CNS) depression. Eye contact : No specific data. Inhalation : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Skin contact : Adverse symptoms may include the following: irritation dryness cracking Ingestion : Adverse symptoms may include the following: irritation dryness cracking Ingestion : Adverse symptoms may include the following: irritation dryness cracking Ingestion : No specific data. Issue contact : Adverse symptoms may include the following: irritation dryness cracking Ingestion : No specific data. 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.	English (GB)	United Kingdom (UK)	4/1
Eye contact: No known significant effects or critical hazards.Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.Skin contact: Defatting to the skin. May cause skin dryness and irritation.Ingestion: Can cause central nervous system (CNS) depression.Over-exposure signs/symptomsEye contact: No specific data.Inhalation: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousnessSkin contact: Adverse symptoms may include the following: nritation dryness crackingIngestion: No specific data.	Notes to physician		
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Eye contact: No known significant effects or critical hazards.Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or	Skin contact	: Defatting to the skin. May cause skin dryness and irritation.	
	Inhalation		r
Potential acute health effects	Eye contact	: No known significant effects or critical hazards.	
	Potential acute health effect	<u>8</u>	

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SECTION 4: First aid	measures	
Specific treatments	: No specific treatment.	
SECTION 5: Firefigh	ting measures	
5.1 Extinguishing media		
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water jet.	
5.2 Special hazards arising f	rom the substance or mixture	
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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		
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective equipment and emergency procedures	
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel fror entering. Do not touch or walk through spilt material. Shut off all ignition source flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Prov adequate ventilation. Wear appropriate respirator when ventilation is inadequate on appropriate personal protective equipment.	es. No /ide
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any infor Section 8 on suitable and unsuitable materials. See also the information in "Fo emergency personnel".	
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, dra sewers. Inform the relevant authorities if the product has caused environmenta pollution (sewers, waterways, soil or air). Water polluting material. May be han the environment if released in large quantities. Collect spillage.	ıl
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. Alternative or if water-insoluble, absorb with an inert dry material and place in an appropriate wast disposal container. Dispose of via a licensed waste disposal contractor. 		rnatively,
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SECTION 6: Accide	ental release measures
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). 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.
	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.

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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	
-ethylhexanoic acid, zirconium salt	ACGIH TLV (United States, 1/2021). [Zirconium and compounds] STEL: 10 mg/m ³ , (as Zr) 15 minutes. TWA: 5 mg/m ³ , (as Zr) 8 hours.	
butanone oxime	IPEL (-). TWA: 3 ppm STEL: 9 ppm	
2-ethylhexanoic acid, cobalt salt	ACGIH TLV (United States, 1/2021). [cobalt and inorganic compounds] Skin sensitiser. Inhalation sensitiser. TWA: 0.02 mg/m ³ , (as Co) 8 hours.	
2-ethylhexanoic acid	ACGIH TLV (United States, 1/2021). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction and vapor	
procedures atmosphere or b the ventilation or protective equip following: Europ assessment of e values and meas atmospheres - G exposure to cher atmospheres - G measurement of		

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Aphtha (petroleum), hydrodesulphurized heavy Nota(s) P	DNEL	Long term Inhalation	1286 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0.41 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	1.9 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	178.57 mg/m ³	General population	Local
	DNEL	Short term Inhalation	640 mg/m ³	General population	Local
	DNEL	Long term Inhalation	837.5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1066.67 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1152 mg/m ³	General population	
	DNEL	Short term Inhalation	1286.4 mg/m ³	Workers	Systemic
2-ethylhexanoic acid, zirconium salt	DNEL	Long term Oral	2.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	3.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	6.49 mg/kg bw/day	Workers	Systemic
butanone oxime	DNEL	Long term Dermal	0.78 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	1.5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	2.5 mg/kg bw/day	Workers	Systemic
	DMEL	Long term Oral	1.6 µg/kg bw/day	General population	
	DMEL	Long term Dermal	4 μg/kg bw/day	Workers	Systemic
	DMEL	Long term Inhalation	4.82 µg/m³	General population	Systemic
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SECTION 8: Exposure controls/personal protection

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	DMEL	Long term Inhalation	28 µg/m³	Workers	Systemic
	DNEL	Long term Inhalation	0.43 mg/m³	General population	Local
	DNEL	Long term Inhalation	0.9 mg/m³	Workers	Local
Octadecanoic acid,	DNEL	Long term Inhalation	0.055 mg/m³	General population	Local
12-hydroxy-, reaction					
products with					
ethylenediamine					
	DNEL	Long term Inhalation	0.308 mg/m³	Workers	Local
calcium bis(2-ethylhexanoate)	DNEL	Long term Oral	0.167 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.167 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.333 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.58 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	2.351 mg/m³	Workers	Systemic
2-ethylhexanoic acid	DNEL	Long term Oral	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.5 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	14 mg/m ³	Workers	Systemic

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
butanone oxime		Fresh water Sewage Treatment Plant	0.256 mg/l 177 mg/l	Assessment Factors Assessment Factors

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety glasses with side shields. 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	:

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 SECTION 8: Exposure controls/personal protection

 For prolonged or repeated handling, use the following type of gloves:

Recommended: nitrile 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

Appearance		
Physical state	quid.	
Colour	rownish-red.	
Odour	romatic.	
Odour threshold	ot available.	
Melting point/freezing point	ay start to solidify at the following temperature: <-6 ata for the following ingredient: Naphtha (petroleun	
Initial boiling point and boiling range	37.78°C	
Flammability	luid	
Upper/lower flammability or explosive limits	reatest known range: Lower: 1.4% Upper: 7.6% (I /drodesulfurized heavy)	Naphtha (petroleum),
Flash point	losed cup: 40°C	
Auto-ignition temperature		
	ngredient name °C °F	Method
	aphtha (petroleum), 280 to 470 536 to 8 vdrodesulfurized heavy	378
Decomposition temperature	able under recommended storage and handling co	onditions (see Section 7).
рН	ot applicable. insoluble in water.	
Viscosity	nematic (40°C): >21 mm²/s	
Solubility(ies)		

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SECTION 9: Physical and chemical properties

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	Media	Result
	<mark>¢</mark> ∕old water	Not soluble
Ρ	artition coefficient: n-octanol/ : N	lot applicable.

water

Vapour pressure

			Vapour Pressure at 20°C			Vapour pressure at 50		sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		Maphtha (petroleum), hydrodesulfurized heavy	3.7503075	0.5				
Evaporation rate	:	Not available.			-		1	•
Relative density		1.02						
Relative density Explosive properties		1.02 The product itself is r vapour or dust with a			the formation	of an ex	plosible n	nixture of
	:	The product itself is r	ir is poss	ible.		of an ex	plosible n	nixture of
Explosive properties	:	The product itself is r vapour or dust with a	ir is poss	ible.		of an ex	plosible n	nixture of

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 metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Code : 00437429 SIGMARINE 48 REDBROWN Date of issue/Date of revision

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
aphtha (petroleum), hydrodesulphurized heavy Nota(s) P	LD50 Oral	Rat	>5000 mg/kg	-
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	_
	LD50 Oral	Rat	100 mg/kg	_
Octadecanoic acid, 12-hydroxy-, reaction	LC50 Inhalation Dusts and	Rat	5.05 mg/l	4 hours
products with ethylenediamine	mists		Ũ	
, ,	LD50 Oral	Rat	>2000 mg/kg	_
2-ethylhexanoic acid	LD50 Dermal	Rabbit	1.26 g/kg	-
,	LD50 Oral	Rat	1600 mg/kg	-

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

Irritation/Corrosion

Conclusion/Summary

Skin	: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Sensitisation

Eyes

Product/ingre	dient name	Route of exposure	Species	Result
Octadecanoic acid, 12-hyd with ethylenediamine	roxy-, reaction products	skin	Guinea pig	Sensitising
Conclusion/Summary				
Skin	: There are no data ava	ailable on the mixtu	re itself.	
Respiratory	: There are no data ava	ailable on the mixtu	re itself.	
Mutagenicity				
Conclusion/Summary	: There are no data ava	ailable on the mixtu	re itself.	
Carcinogenicity				
Conclusion/Summary	: There are no data ava	ailable on the mixtu	re itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data ava	ailable on the mixtu	re itself.	
Teratogenicity				
Conclusion/Summary	: There are no data ava	ailable on the mixtu	re itself.	
Specific target organ toxi	<u>city (single exposure)</u>			

Product/ingredient name	Category	Route of exposure	Target organs
naphtha (petroleum), hydrodesulphurized heavy Nota(s) P butanone oxime	Category 3 Category 1 Category 3	-	Narcotic effects upper respiratory tract Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
naphtha (petroleum), hydrodesulphurized heavy Nota(s) P	Category 1	-	central nervous system (CNS)
butanone oxime	Category 2	-	blood system

English (GB)

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Aspiration hazard

Produc	ct/ingredient name	Result
naphtha (petroleum), hydro	odesulphurized heavy Nota(s) P	ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health eff	ects	
Inhalation	: Can cause central nervous system dizziness.	tem (CNS) depression. May cause drowsiness or
Ingestion	: Can cause central nervous sys	tem (CNS) depression.
Skin contact	: Defatting to the skin. May caus	se skin dryness and irritation.
Eye contact	: No known significant effects or	critical hazards.
Symptoms related to the	physical, chemical and toxicologica	al characteristics
Inhalation	: Adverse symptoms may include nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	e the following:
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may include irritation dryness cracking	e the following:
Eye contact	: No specific data.	
	ffects as well as chronic effects fro	om short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effect	ts : Not available.	
Potential immediate effects	: Not available.	
Potential delayed effect	ts : Not available.	
Potential chronic health		
Not available.		
Conclusion/Summary	: Not available.	
General	: Causes damage to organs thro	ough prolonged or repeated exposure. Prolonged or skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	•	ncer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or	
Reproductive toxicity	: No known significant effects or	
Other information	: Not available.	
		Sanding and grinding dusts may be harmful if inhaled

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

English ((GB)
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SECTION 11: Toxicological information

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
P-ethylhexanoic acid, zirconium salt Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute LC50 >100 mg/l Acute EC50 >100 mg/l	Fish Algae - Pseudokirchneriella subcapitata	96 hours 72 hours
	Acute EC50 >10 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >10 mg/l	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
	301D Ready Biodegradability - Closed Bottle Test	22 % - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Sctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	-	-	Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Jutanone oxime Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	0.63 >5.86	5.01 -	low high
2-ethylhexanoic acid	2.7	-	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.

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SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

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 : Yes.

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
ackaging		
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	

14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III		III	111
English (GB)		United Kingdom (I	nk)	14/17

drains and sewers.

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14. Transport	tinformation			
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	e environmentally hazardous substance mark is not required when transported in siz kg.	es of ≤5 L or
	Tunnel code	E)	
ADN : The environmentally hazardous substance mark is not required when transported in sizes or ≤5 kg.			
	IMDG	e marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.	
	ΙΑΤΑ	e environmentally hazardous substance mark may appear if required by other transp ulations.	ortation
	14.6 Special preca user	is for : Transport within user's premises: always transport in closed containers upright and secure. Ensure that persons transporting the product know whethe event of an accident or spillage.	
	14.7 Maritime tran	in : Not applicable.	

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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u> <u>Annex XIV - List of substances subject to authorisation</u>

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Restricted to professional users.

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

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c E2
E2

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SECTION 15: Regulatory information

Product/ingredient name	List name	Name on list	Classification	Notes
2-ethylhexanoic acid, cobalt salt	UK Occupational Exposure Limits EH40 - WEL	cobalt and cobalt compounds as Co	Carc.	-

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

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Carc. 1B, H350	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H301	Toxic 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.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated
	exposure.
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]

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

<u>History</u>	
Date of issue/ Date of revision	: 13 June 2022
Date of previous issue	: 2 March 2022
Prepared by	: EHS
Version	: 3.01

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