Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

Date of issue/Date of revision

: 13 September 2024 Version



: 1.02

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

1.1 Product identifier	
Product name	: SIGMACOVER 456 BASE RAL 5023
Product code	: 00328055
Product type	: Liquid.
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 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 UK CLP/GHS Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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



Code	: 00328055	Date of issue/Date of revision	: 13 September 2024
SIGMACOV	ER 456 BASE RAL 5023		

SECTION 2: Hazards	ic	dentification
Hazard statements	:	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour. Wash thoroughly after handling.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	P280, P210, P273, P260, P264, P501
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	its
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.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

EC: 238-878-4 CAS: 14808-60-7 REACH #: 01-2119488216-32	≥10 - ≤25 ≥10 - <20	STOT RE 1, H372 (inhalation) Flam. Liq. 3, H226	[1] [2]
	≥10 - <20	Flam Lig 3 H226	
EC: 215-535-7 CAS: 1330-20-7		Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
REACH #:	≥1.0 - ≤5.0	Flam. Liq. 2, H225	[1] [2]
	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 REACH #:	REACH #: ≥5.0 - ≤10 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Z5068-38-6 REACH #: ≥1.0 - ≤5.0	REACH #: ≥5.0 - ≤10 Eye Irrit. 2, H319 01-2119456619-26 EC: 500-033-5 Skin Sens. 1, H317 CAS: 25068-38-6 Aguatic Chronic 2, H411

Code : 00328055 SIGMACOVER 456 BASE RAL 5023	Date of issue/Date of revision	: 13 September 2024
SECTION 3: Composition/infor	mation on ingredients	
01-2119 EC: 202	-849-4	Acute Tox. 4, H332 STOT RE 2, H373

	EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4		STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	<1.0	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
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]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains \geq 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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. 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	s a	nd effects	, <mark>bot</mark> h	acute	and	delaye	d
Potential acute health effects							
Eve contact	÷	Causes se	erious	eve irrit	tatior	1 .	

English	(GR)
LIIGUSU	

Code : 003280 SIGMACOVER 456 BA		
SECTION 4: Firs	st aid measures	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs	/symptoms	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering	

	redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness 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.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2 Special hazards arising 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 harmful 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 sulfur oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions 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.

Code : 00328055

Date of issue/Date of revision

: 13 September 2024

SIGMACOVER 456 BASE RAL 5023

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive 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. Avoid breathing 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.
6.3 Methods and material for	со	ntainment 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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.

Code : 00328055

SIGMACOVER 456 BASE RAL 5023

Date of issue/Date of revision

: 13 September 2024

SECTION 7: Handling and storage

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. 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

8.1 Control parameters

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).

Occupational exposure limits

Product/ingredient name	Exposure limit values
vystalline silica, respirable powder (<10 microns)	EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica,
	respirable crystalline]
	TWA: 0.1 mg/m ³ 8 hours. Form: Respirable fraction
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p-
	or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 441 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 274 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
xylene	XYLENES
	d be made to appropriate monitoring standards. Reference to e documents for methods for the determination of hazardous also be required.

DNELs/DMELs

Code : 00328055 Date of issue/Date of revision : 13 September 2024

SIGMACOVER 456 BASE RAL 5023

SECTION 8: Exposure controls/personal protection

	DNEL DNEL DNEL DNEL	Long term Oral Long term Inhalation Long term Inhalation	5 mg/kg bw/day 65.3 mg/m³	General population General population	Systemic
	DNEL DNEL DNEL	Long term Inhalation			•
	DNEL				Local
			65.3 mg/m ³	General population	Systemic
		Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	12.25 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	12.25 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	3.571 mg/kg bw/day	General	Systemic
		Long term Derma	o.or i ing/kg bw/day	population	Cysternio
				[Consumers]	
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General	Systemic
	DINEL	Short term Derma	5.57 Ting/kg bw/day	population	Oysternic
	DNEL	Long term Oral	0.75 mg/kg bw/day	[Consumers] General	Svetomic
	DINEL	Long term Orai	0.75 mg/kg bw/day	population	Systemic
		Short torm Oral	0.75 mg/kg bw/dov	[Consumers]	Svetemie
	DNEL	Short term Oral	0.75 mg/kg bw/day	General	Systemic
				population	
			440	[Consumers]	Lasal
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
2-methoxy-1-methylethyl acetate	DNEL	Long term Inhalation	33 mg/m³	General population	Local
	DNEL	Long term Inhalation	33 mg/m³	General population	Systemic
	DNEL	Long term Oral	36 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	275 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	320 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	550 mg/m ³	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	150 mg/m ³	Workers	Systemic
-	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	32 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.055 mg/m ³	General population	Local
			0.000 mg/m		LUCAI
12-hydroxy-, reaction					
products with					
ethylenediamine	סאירי	l ong torm inhalation	$0.200 m a/m^3$	Workora	
	DNEL	Long term Inhalation	0.308 mg/m ³	Workers	Local

Code	: 00328055	Date of issue/Date of revision	: 13 September 2024
SIGMACOVI	ER 456 BASE RAL 5023		

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Compartment Detail	Value	Method Detail
xylene	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg	-
epoxy resin (MW ≤ 700)	Fresh water	0.006 mg/l	Assessment Factors
	Marine water	0.001 mg/l	Assessment Factors
	Sewage Treatment Plant	10 mg/l	Assessment Factors
	Fresh water sediment	0.996 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.1 mg/kg dwt	Equilibrium Partitioning
ethylbenzene	Fresh water	0.1 mg/l	Assessment Factors
	Marine water	0.01 mg/l	Assessment Factors
	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	Secondary Poisoning	20 mg/kg	-
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l	-
	Marine water	0.0635 mg/l	-
	Fresh water sediment	3.29 mg/kg	-
	Marine water sediment	0.329 mg/kg	-
	Soil	0.29 mg/kg	-
	Sewage Treatment Plant	100 mg/l	-

8.2 Exposure controls

vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.	Appropriate engineering controls	
--	----------------------------------	--

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 <u>Skin protection</u>	Chemical splash goggles.
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. butyl rubber

Code : 00328055	Date of issue/Date of revision	: 13 September 2024
SIGMACOVER 456 BASE RAL 5023		

SECTION 8: Exposure controls/personal protection

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.
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.

Initial boiling point and boiling range : >37.78°C (>100°F) Flammability (solid, gas) : liquid					
Colour : Blue. Odour : Aromatic. Odour threshold : Not available. Melting point/freezing point : May start to solidify at the following temperature: -66°C (-86.8°F) This is based o data for the following ingredient: 2-methoxy-1-methylethyl acetate. Weighted average: -90.97°C (-131.7°F) Initial boiling point and boiling range >37.78°C (>100°F) Flammability (solid, gas) : liquid Upper/lower flammability or : Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic) Flash point : Closed cup: 29°C (84.2°F) Auto-ignition temperature : Ingredient name °C °F Method ?333 631.4 DIN 51794 pH : Not applicable. Insoluble in water, Not applicable. Insoluble in water, Viscosity Solubility(ies) : ! ! Method Media Result Cold water Not soluble Miscible with water : No. Partition coefficient: n-octanol/ Partition coefficient: n-octanol/ : Not applicable. Not applicable.	<u>Appearance</u>				
Odour : Aromatic. Odour threshold : Not available. Melting point/freezing point : May start to solidify at the following temperature: -66°C (-86.8°F) This is based o data for the following ingredient: 2-methoxy-1-methylethyl acetate. Weighted average: -90.97°C (-131.7°F) Initial boiling point and boiling range : >37.78°C (>100°F) Flammability (solid, gas) : liquid Upper/lower flammability or explosive limits : Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic) Flash point : Closed cup: 29°C (84.2°F) Auto-ignition temperature : Ingredient name °C °F Method : PH : Not applicable. Not applicable. Not applicable. Insoluble in water. Viscosity : Kinematic (40°C): >21 mm²/s Solubility(ies) : Media Result cold water Not soluble Miscible with water : No. Partition coefficient: n-octanol/ : Not applicable.	Physical state	: Liqui	d.		
Odour threshold : Not available. Melting point/freezing point : May start to solidify at the following temperature: -66°C (-86.8°F) This is based or data for the following ingredient: 2-methoxy-1-methylethyl acetate. Weighted average: -90.97°C (-131.7°F) Initial boiling point and boiling range : >37.78°C (>100°F) Flammability (solid, gas) : liquid Upper/lower flammability or explosive limits : Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic) Flash point : Closed cup: 29°C (84.2°F) Auto-ignition temperature : Ingredient name °C °F Method : PH : Not applicable. Not applicable. Not applicable. Insoluble in water. Viscosity : Kinematic (40°C): >21 mm²/s Solubility(ies) : Media Result cold water Not soluble Miscible with water : No. Partition coefficient: n-octanol/ : Not applicable.	Colour	: Blue			
Melting point/freezing point : May start to solidify at the following temperature: -66°C (-86.8°F) This is based or data for the following ingredient: 2-methoxy-1-methylethyl acetate. Weighted average: -90.97°C (-131.7°F) Initial boiling point and boiling range : >37.78°C (>100°F) Initial boiling point and boiling range : >37.78°C (>100°F) Flammability (solid, gas) : liquid Upper/lower flammability or explosive limits : Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic) Flash point : Closed cup: 29°C (84.2°F) Auto-ignition temperature : Ingredient name °C °F Method 0IN 51794 pH : Not applicable. Not applicable. Not applicable. Insoluble in water. Viscosity : Kinematic (40°C): >21 mm²/s Solubility(ies) : Media Result cold water Not soluble Miscible with water : No. Partition coefficient: n-octanol/ : Not applicable. Not applicable. Water	Odour	: Aron	Aromatic.		
data for the following ingredient: 2-methoxy-1-methylethyl acetate. Weighted average: -90.97°C (-131.7°F) Initial boiling point and boiling range Flammability (solid, gas) I liquid Upper/lower flammability or explosive limits I Closed cup: 29°C (84.2°F) Auto-ignition temperature Ingredient name Ingredient name Imath of the thylethyl acetate Imath of the thylethylethylethylethylethylethylethyle	Odour threshold	: Not a	available.		
boiling range Flammability (solid, gas) : liquid Upper/lower flammability or explosive limits : Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic) Flash point : Closed cup: 29°C (84.2°F) Auto-ignition temperature : Ingredient name °C °F Method @interpretation temperature PH : Not applicable. Not applicable. insoluble in water. Viscosity : Kinematic (40°C): >21 mm²/s Solubility(ies) : Media Result cold water Not soluble Miscible with water : No. Partition coefficient: n-octanol/ water : Not applicable.	Melting point/freezing point	data	average: -90.97°C (-131.7°F)		
Upper/lower flammability or explosive limits : Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic) Flash point : Closed cup: 29°C (84.2°F) Auto-ignition temperature : Ingredient name °C °F Method 333 631.4 PH : Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. . Viscosity : Kinematic (40°C): >21 mm²/s Solubility(ies) : Media Result cold water Not soluble Miscible with water : No. Partition coefficient: n-octanol/ : Not applicable. Not applicable.		: >37.	78°C (>100°F))	
explosive limits light aromatic) Flash point : Closed cup: 29°C (84.2°F) Auto-ignition temperature : Ingredient name °C °F Method . PH : Not applicable. Not applicable. insoluble in water. Viscosity : Kinematic (40°C): >21 mm²/s Solubility(ies) : Media Result cold water Not soluble Miscible with water : No. Partition coefficient: n-octanol/ : Not applicable.	Flammability (solid, gas)	: liquio	ł		
Auto-ignition temperature : Ingredient name °C °F Method Image: Second Sec				nge: Lower: 1.4% l	Jpper: 7.6% (Solvent naphtha (petroleum),
Ingredient name °C °F Method Impredient name 333 631.4 DIN 51794 Impredient name 333 631.4 DIN 51794 Impredient name 333 631.4 DIN 51794 Impredient name Impredient name Impredient name Impredient name Impredient name 333 631.4 DIN 51794 Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impredient name Impre	Flash point	: Clos	ed cup: 29°C ((84.2°F)	
Production Distribution Production 333 631.4 DIN 51794 pH : Not applicable. Not applicable. insoluble in water. Viscosity : Kinematic (40°C): >21 mm²/s Solubility(ies) : Media Result cold water Not soluble Miscible with water : Partition coefficient: n-octanol/ : water :	Auto-ignition temperature	:			
pH : Not applicable. Not applicable. insoluble in water. Viscosity : Kinematic (40°C): >21 mm²/s Solubility(ies) : Media Result cold water Not soluble Miscible with water : No. Partition coefficient: n-octanol/ : Not applicable.	Ingredient name		°C	°F	Method
Not applicable. insoluble in water. Viscosity : Solubility(ies) : Media Result cold water Not soluble Miscible with water : Partition coefficient: n-octanol/ : water :	methoxy-1-methylethyl acetate		333	631.4	DIN 51794
Solubility(ies) : Media Result cold water Not soluble Miscible with water : Partition coefficient: n-octanol/ : water :	рН		••	oluble in water.	
Media Result cold water Not soluble Miscible with water : No. Partition coefficient: n-octanol/ : Not applicable. water	Viscosity	: Kine	matic (40°C): ३	>21 mm²/s	
cold water Not soluble Miscible with water : No. Partition coefficient: n-octanol/ : Not applicable. water	Solubility(ies)	:			
Miscible with water : No. Partition coefficient: n-octanol/ : Not applicable. water : Not applicable.	Media	Re	sult		
Partition coefficient: n-octanol/ : Not applicable. water	cold water	Not soluble			
water	Miscible with water	: No.			
Vapour pressure :		l/ : Nota	applicable.		
	Vapour pressure	:			

9.1 Information on basic physical and chemical properties

English (GB)

Code	: 00328055	Date of issue/Date of revision	: 13 September 2024
SIGMACO	VER 456 BASE RAL 5023		

SECTION 9: Physical and chemical properties

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
e thylbenzene	9.30076	1.2					
Relative density	: 1.3	5	Į				
Vapour density		hest known rage: 3.78		1) (2-methoxy-	1-methyletl	hyl acetate). Weight	
Explosive properties	: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
Oxidising properties Particle characteristics	: Pro	duct does r	not present an oxic	dizing hazard.			
Median particle size	: Not	applicable					

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 sulfur oxides halogenated compounds metal oxide/ oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
x ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2-methoxy-1-methylethyl	LC50 Inhalation Vapour	Rat	30 mg/l	4 hours
acetate				
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
Hydrocarbons, C9,	LD50 Dermal	Rabbit	>3160 mg/kg	-
aromatics > 0.1% cumene				
	LD50 Oral	Rat - Female	3492 mg/kg	-
Octadecanoic acid,	LC50 Inhalation Dusts and	Rat	5.05 mg/l	4 hours
12-hydroxy-, reaction	mists			
products with				
ethylenediamine				
	LD50 Oral	Rat	>2000 mg/kg	-

28055

Date of issue/Date of revision

: 13 September 2024

SIGMACOVER 456 BASE RAL 5023

SECTION 11: Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMACOVER 456 BASE RAL 5023	N/A	10060.9	N/A	58.7	N/A
xylene	4300	1700	N/A	11	N/A
ethylbenzene	3500	17800	N/A	17.8	N/A
2-methoxy-1-methylethyl acetate	6190	N/A	N/A	30	N/A
Hydrocarbons, C9, aromatics > 0.1% cumene	3492	N/A	N/A	N/A	N/A
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	N/A	N/A	N/A	N/A	5.05

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
epoxy resin (MW ≤ 700)	Eyes - Mild irritant	Rabbit	-	-	-
· · · · ·	Skin - Mild irritant	Rabbit	-	-	-

Conclusion/Summary	i Not avallable.
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/ingredient name	Route of exposure	Species	Result
epoxy resin (MW ≤ 700) Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	skin skin	Mouse Guinea pig	Sensitising Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Code	: 00328055	Date of issue/Date of revision	: 13 September 2024
SIGMACOV	ER 456 BASE RAL 5023		

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

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

Hydrocarbons, C9, aromatics	^	0.1% cumene	ASPIRA	TION HAZARD - Calegory T
Information on likely routes of exposure	:	Not available.		
Potential acute health effects				
Eye contact	:	Causes serious eye irritation.		
Inhalation	:	No known significant effects or cri	tical hazar	ds.
Skin contact	1	Causes skin irritation. Defatting to	the skin.	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or cri	tical hazar	ds.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ots</u>
Not available.	
Conclusion/Summary	: Not available.
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	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

English (GB)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

Code : 00328055

Date of issue/Date of revision : 13 September 2024

SIGMACOVER 456 BASE RAL 5023

SECTION 11: Toxicological information

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
Hydrocarbons, C9, aromatics > 0.1% cumene	EC50 3.2 mg/l	Daphnia	48 hours
	LC50 9.2 mg/l	Fish	96 hours
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
,	Acute EC50 >10 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >10 mg/l	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
poxy resin (MW ≤ 700)	OECD 301F	5 % - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-
2-methoxy-1-methylethyl	-	83 % - Readily - 28 days	-	-
acetate				
Hydrocarbons, C9,	-	75 % - Readily - 28 days	-	-
aromatics > 0.1% cumene				
Octadecanoic acid,	301D Ready	22 % - 28 days	-	-
12-hydroxy-, reaction	Biodegradability -	-		
products with	Closed Bottle			
ethylenediamine	Test			

Conclusion/Summary

: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
epoxy resin (MW ≤ 700)	-	-	Not readily
ethylbenzene	-	-	Readily
2-methoxy-1-methylethyl	-	-	Readily
acetate			
Hydrocarbons, C9, aromatics > 0.1% cumene	-	-	Readily
Octadecanoic acid,	-	-	Inherent
12-hydroxy-, reaction			
products with			
ethylenediamine			

12.3 Bioaccumulative potential

Code : 00328055	Date of issue/Date of revision	: 13 September 2024
SIGMACOVER 456 BASE RAL 5023		

SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
epoxy resin (MW \leq 700)	3	31	Low
ethylbenzene	3.6	79.43	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	>5.86	-	High

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 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 <u>Waste catalogue</u>	: Yes.
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	Waste catalogue		
Container 15 01 06 mixed packaging		mixed packaging	
Special precautions	taken when Empty cont residues m container. thoroughly	al and its container must be disposed of in a safe way. Care should be a handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with vays, drains and sewers.	

Code	: 00328055	Date of issue/Date of revision	: 13 September 2024
SIGMACOVE	R 456 BASE RAL 5023		

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN 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	Ш	111	Ш	111
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.
Additional inform	nation		•	
ADR/RID	: None identified.			
Funnel code	(D/E)			
ADN	The product is only regulated as an environmentally hazardous substance when transported in tank vessels.			
IMDG	: None identified.			
ΙΑΤΑ	: None identified.			

```
user
```

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk : Not available. according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/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.

Ozone depleting substances

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Code : 00328055

Date of issue/Date of revision

: 13 September 2024

SIGMACOVER 456 BASE RAL 5023

SECTION 15: Regulatory information

Category

P5c

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
· · · · ·	Exposure Limits EH40	silica, respirable crystalline respirable fraction	Carc.	-

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H319Causes serious eye irritation.H322Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.EUH066Repeated exposure may cause skin dryness or cracking.		
H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H319Causes serious eye irritation.H322Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H225	Highly flammable liquid and vapour.
 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H350 May cause cancer. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause 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. 	H226	Flammable liquid and vapour.
H315Causes skin irritation.H317May cause an allergic skin reaction.H319Causes serious eye irritation.H322Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H350May cause cancer.H372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H304	May be fatal if swallowed and enters airways.
H317May cause an allergic skin reaction.H319Causes serious eye irritation.H332Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H350May cause cancer.H372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H312	Harmful in contact with skin.
 H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H350 May cause cancer. 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. 	H315	Causes skin irritation.
H332Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H350May cause cancer.H372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H317	May cause an allergic skin reaction.
H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H350May cause cancer.H372Causes damage to organs through prolonged or repeated exposure.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H319	Causes serious eye irritation.
 H336 May cause drowsiness or dizziness. H350 May cause cancer. 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. 	H332	Harmful if inhaled.
 H350 May cause cancer. 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. 	H335	May cause respiratory irritation.
 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. 	H336	May cause drowsiness or dizziness.
 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. 	H350	May cause cancer.
H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H372	Causes damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.	H373	May cause damage to organs through prolonged or repeated exposure.
	H411	Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.	H412	Harmful to aquatic life with long lasting effects.
	EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

	00328055 456 BASE RAL 5023	Date of issue/Date of revision	: 13 September 2024
OF OTION A			

SECTION 16: Other information

: 1.02

Acute Tox. 4 Aquatic Chronic 2	ACUTE TOXICITY - Category 4 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 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
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>	
Date of issue/ Date of	: 13 September 2024
revision	
Date of previous issue	e : 27 October 2023
Prepared by	: EHS

Version

<u>Disclaimer</u>

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.