## **SAFETY DATA SHEET**

United Arab Emirates

: 3.01

Date of issue/Date of revision

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SECTION 1: Identification of the substance/mixture and of the company/ undertaking		
1.1 Product identifier		
Product name	: SIGMACOVER 456 BASE RAL 5010	
Product code	: 00150050	
Other means of identifica	tion	
Not available.		
1.2 Relevant identified use	s 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	of the safety data sheet	
Sigma Paint Saudi Arabia L PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	td.	
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa	
1.4 Emergency telephone number	: 00966 138473100 extn 1001	

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

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

#### 2.2 Label elements

Code : 00150050	Date of issue/Date of revision : 20 December 2023		
SIGMACOVER 456 BASE RAL	. 5010		
SECTION 2: Hazards identification			
Hazard pictograms			
Signal word	: Warning		
Hazard statements	<ul> <li>Flammable liquid and vapour.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause respiratory irritation.</li> <li>Harmful to aquatic life with long lasting effects.</li> </ul>		
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.		
Response	: IF INHALED: Call a POISON CENTER or doctor if you feel unwell.		
Storage	: Store in a well-ventilated place. Keep container tightly closed.		
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P304 + P312, P403 + P233, P501</li> </ul>		
Hazardous ingredients	<ul> <li>Kylene</li> <li>epoxy resin (MW ≤ 700)</li> <li>2-methylpropan-1-ol</li> <li>1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene</li> <li>Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine</li> </ul>		
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.		
Special packaging requirem	<u>ients</u>		
Containers to be fitted with child-resistant fastenings	: Not applicable.		
Tactile warning of danger	: Not applicable.		
2.3 Other hazards			
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB		
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.		

Code : 00150050

Date of issue/Date of revision

: 20 December 2023

SIGMACOVER 456 BASE RAL 5010

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₩ylene	EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
epoxy resin (MW  ≤ 700)	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	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[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]
			See Section 16 for the full text of the H statements declared above.		

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

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and pxylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

English (GB) United Arab Emirates

Code : 00150050 Date of issue/Date of revision : 20 December 2023 SIGMACOVER 456 BASE RAL 5010

### **SECTION 4: First aid measures**

4.1 Description of first aid measures			
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>		
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.		
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.		
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.		
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		

#### 4.2 Most important symptoms and effects, both acute and delayed

Potential acute health	effects
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/s</u>	ymptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

#### 4

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

## **SECTION 5: Firefighting measures**

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

#### 5.2 Special hazards arising from the substance or mixture

Code : 00150050 Date of issue/Date of revision

: 20 December 2023

SIGMACOVER 456 BASE RAL 5010

## **SECTION 5: Firefighting measures**

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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 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	ote	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 containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

Code : 00150050

SIGMACOVER 456 BASE RAL 5010

Date of issue/Date of revision

: 20 December 2023

## **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 ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

### **SECTION 8: Exposure controls/personal protection**

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
<mark>b∕</mark> arium sulfate	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).TWA: 10 mg/m³ 8 hours.Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).TWA: 10 mg/m³ 8 hours.ACGIH TLV (United States, 1/2023). Notes: The value is for total dust containing no asbestos and < 1% crystalline silica.TWA: 5 mg/m³ 8 hours.
xylene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)]
1	English (GB) United Arab Emirates 6/16

Code : 00150050	Date of issue/Date of revision : 20 December 202
SIGMACOVER 456 BASE RAL 5010	
	STEL: 651 mg/m³ 15 minutes.STEL: 150 ppm 15 minutes.TWA: 434 mg/m³ 8 hours.TWA: 100 ppm 8 hours.Cabinet Decree (12) of 2006 Regarding Regulation ConcerningProtection of Air from Pollution (United Arab Emirates, 5/2006).[xylene (all isomers)]STEL: 150 ppm 15 minutes.TWA: 434 mg/m³ 8 hours.STEL: 651 mg/m³ 15 minutes.TWA: 100 ppm 8 hours.ACGIH TLV (United States, 1/2023). [p-xylene and mixturescontaining p-xylene] Ototoxicant.TWA: 20 ppm 8 hours.
ethylbenzene	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).</li> <li>STEL: 543 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 125 ppm 15 minutes.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> <li>STEL: 125 ppm 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 125 ppm 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 434 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 100 ppm 8 hours.</li> <li>ACGIH TLV (United States, 1/2023). Ototoxicant. Notes:</li> <li>Substances for which there is a Biological Exposure Index or Indices 2002 Adoption.</li> <li>TWA: 20 ppm 8 hours.</li> </ul>
carbon black, respirable powder	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 3.5 mg/m<sup>3</sup> 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 3.5 mg/m<sup>3</sup> 8 hours.</li> <li>ACGIH TLV (United States, 1/2023). Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. 1996 Adoption Refers to Appendix A Carcinogens TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction</li> </ul>
2-methylpropan-1-ol	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 152 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 152 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>ACGIH TLV (United States, 1/2023). TWA: 152 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.</li> </ul>
procedures Standar by inhala strategy applicati biologica requiren	L ce should be made to monitoring standards, such as the following: European d EN 689 (Workplace atmospheres - Guidance for the assessment of exposur- ation to chemical agents for comparison with limit values and measurement ) European Standard EN 14042 (Workplace atmospheres - Guide for the on and use of procedures for the assessment of exposure to chemical and al agents) European Standard EN 482 (Workplace atmospheres - General nents for the performance of procedures for the measurement of chemical Reference to national guidance documents for methods for the determination

English (GB) United Arab Emirates

020/878	
Code : 00150050	Date of issue/Date of revision : 20 December 2023
SIGMACOVER 456 BASE RA	L 5010
	of hazardous substances will also be required.
3.2 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 meas	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic 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.
<b>Respiratory protection</b>	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: Various
Odour	: Aromatic.
Odour threshold	: Not available.

Code : 00150050	Date of issue/Date of revision	: 20 December 2023
SIGMACOVER 456 BASE RAL 5010		

## **SECTION 9: Physical and chemical properties**

Melting point/freezing point	:		May start to solidify at the following temperature: -94.9°C (-138.8°F) This is based on data for the following ingredient: ethylbenzene. Weighted average: -95.12°C (-139.2°F)						
Initial boiling point and boiling range	:	>37.78°C							
Flammability	:	Not available.	ot available.						
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)							
Flash point	:	Closed cup: 27.5°C	Closed cup: 27.5°C						
Auto-ignition temperature		430°C (806°F)							
Decomposition temperature	1	Stable under recomr	mended st	orage a	nd handling co	onditions	(see Sec	tion 7).	
рН	1	Not applicable. insol							
Viscosity	:		Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s						
Viscosity	:	60 - 100 s (ISO 6mn	n)						
Solubility(ies)	:	·							
Media		Result							
cold water		Not soluble							
Partition coefficient: n-octanol water	/:	Not applicable.							
Vapour pressure	:		Vapou	ır Press	sure at 20°C	Vapo	our pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2				
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (etł	nylbenze	ene) Weighteo	l average	e: 0.77co	mpared with	
Distantion also attai		1.4							
Relative density		Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.65 (Air = 1)							
· · · · · · · · · · · · · · · · · · ·	4	Highest known value	e: 3.7 (Air	= 1) (xy	ylene). Weigh	ted avera	age: 3.65	(Air = 1)	
Vapour density	:	Highest known value The product itself is vapour or dust with a	not explos	ive, but	, , .		•	· · ·	
Vapour density Explosive properties	:	The product itself is	not explos air is possi	ive, but ble.	the formation		•	· ,	
Vapour density Explosive properties Oxidising properties	:	The product itself is vapour or dust with a	not explos air is possi	ive, but ble.	the formation		•	· · ·	
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size	:	The product itself is vapour or dust with a	not explos air is possi	ive, but ble.	the formation		•	· ,	

#### 9.2 Other information

No additional information.

SECTION 10: Stabil	lity and reactivity	
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingred	lients.
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 occu	ur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition Refer to protective measures listed in sections 7 and 8.	products.
	English (GB) United Arab Emirates	9/16

Code: 00150050Date of issue/Date of revision: 20 December 2023

SIGMACOVER 456 BASE RAL 5010

## **SECTION 10: Stability and reactivity**

10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

# **10.6 Hazardous**: Depending on conditions, decomposition products may include the following materials:<br/>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
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
epoxy resin (MW $\leq$ 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-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists		, , , , , , , , , , , , , , , , , , ,	
octadecanoic acid and				
1,3-phenylenedimethanamine				
Octadecanoic acid, 12-hydroxy-, reaction	LC50 Inhalation Dusts and	Rat	5.05 mg/l	4 hours
products with ethylenediamine	mists		5	
	LD50 Oral	Rat	>2000 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<mark>xy</mark> lene epoxy resin (MW  ≤ 700)	Skin - Moderate irritant Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit Rabbit	-	24 hours 500 mg - -	- - -

#### **Conclusion/Summary**

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

Respiratory

Skin Eyes

: There are no data available on the mixture itself.

#### Sensitisation

Product/ingr	redient name	Route of exposure	Species	Result
epoxy resin (MW ≤ 700) Octadecanoic acid, 12-hyd ethylenediamine	lroxy-, reaction products with	skin skin	Mouse Guinea pig	Sensitising Sensitising
Conclusion/Summary			·	
Skin	: There are no data avail	lable on the mixtu	ure itself.	
Respiratory	: There are no data avail	lable on the mixtu	ure itself.	
Mutagenicity				
Conclusion/Summary	: There are no data avail	lable on the mixtu	ure itself.	
Carcinogenicity				
	En	glish (GB)	United Arab Emirates	10/16

Conforms to Regulation (EC) 2020/878	No. 1907/2006 (REACH), Ar	nnex II, as a	men	ded by Commiss	ion Regulation (EU)
Code : 00150050 SIGMACOVER 456 BASE RA	L 5010	Date of iss	sue/E	Date of revision	: 20 December 2023
SECTION 11: Toxico					
Conclusion/Summary	: There are no data availal	ble on the m	ixture	eitself	
Reproductive toxicity					
Conclusion/Summary	: There are no data availal	ble on the m	ixture	e itself.	
<u>Teratogenicity</u>					
Conclusion/Summary	: There are no data availal	ble on the m	ixture	e itself.	
Specific target organ toxici	<u>ty (single exposure)</u>				
Product/ing	redient name	Catego	ory	Route of exposure	Target organs
xylene		Categor		-	Respiratory tract irritation
2-methylpropan-1-ol		Categor		-	Respiratory tract irritation
		Categor	y 3		Narcotic effects
Specific target organ toxici	<u>ty (repeated exposure)</u>				1
Product/ing	redient name	Catego	ory	Route of exposure	Target organs
ethylbenzene		Categor	y 2	-	hearing organs
Aspiration hazard		I	I		
Product/	ingredient name				Result
xylene		4	SPIF	RATION HAZARD	
ethylbenzene				RATION HAZARD	
Information on likely routes of exposure	: Not available.				
Potential acute health effect		itatian			
Inhalation	: May cause respiratory irr		1 6 0 7	arda	
Ingestion Skin contact	<ul> <li>No known significant effe</li> <li>Causes skin irritation. Definition</li> </ul>				alleraie ellip reaction
	: Causes skin initiation. Do	-	e ski	n. May cause an a	allergic skin reaction.
Eye contact Symptoms related to the pl			racto	victice	
Inhalation	: Adverse symptoms may	-			
Initialation	respiratory tract irritation coughing		UIUW	ing.	
Ingestion	: No specific data.				
Skin contact	: Adverse symptoms may	include the f	ollow	ing:	
	irritation				
	redness dryness				
	cracking				
Eye contact	: Adverse symptoms may	include the f	ollow	ing:	
	pain or irritation watering				
	redness				
Delayed and immediate effe	ects as well as chronic effec	cts from sho	ort ar	nd long-term exp	<u>osure</u>
Short term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Long term exposure					
Potential immediate	: Not available.				
effects					
	Engl	lish (GB)	U	nited Arab Emira	tes 11/16

Code : 00150050

SIGMACOVER 456 BASE RAL 5010

Date of issue/Date of revision

: 20 December 2023

### **SECTION 11: Toxicological information**

#### Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

<b>Conclusion/Summary</b>	: Not available.
General	<ul> <li>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.</li> </ul>
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.
Other information	: Not available.

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

#### **11.2 Information on other hazards**

#### 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

### **SECTION 12: Ecological information**

#### **12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
<mark>e</mark> poxy 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-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Acute LC50 >100 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 - 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
Poxy resin (MW ≤ 700) ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	OECD 301F - 301D Ready Biodegradability - Closed Bottle Test	5 % - 28 days 79 % - Readily - 10 days 22 % - 28 days	- - -	-

English (GB) United Arab Emirates

Code<th: 00150050</th>Date of issue/Date of revision: 20 December 2023SIGMACOVER 456 BASE RAL 5010

## **SECTION 12: Ecological information**

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ylene epoxy resin (MW ≤ 700) ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	- - - -	- - - -	Readily Not readily Readily Inherent

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ylene epoxy resin (MW ≤ 700) ethylbenzene 2-methylpropan-1-ol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	3.12 3 3.6 1 >5.86	7.4 to 18.5 31 79.43 - -	Low Low Low Low High

: Not available.
: Not available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

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.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Development of the second	

#### Packaging

Conforms to Regulati 2020/878	on (EC) No. 1907/2006 (I	REACH), Annex II, as amended by Commissio	n Regulation (EU)
Code : 00150	050	Date of issue/Date of revision	: 20 December 2023
SIGMACOVER 456 B	ASE RAL 5010		
SECTION 13: D	isposal consider	ations	
Methods of dispos		on of waste should be avoided or minimised when nould be recycled. Incineration or landfill should o not feasible.	
Type of packag	ing	European waste catalogue (EWC)	
Container	15 01 06	mixed packaging	
Special precautior	taken when h Empty contai residues may Do not cut, w	I and its container must be disposed of in a safe we nandling emptied containers that have not been cl iners or liners may retain some product residues. y create a highly flammable or explosive atmosph yeld or grind used containers unless they have be void dispersal of spilt material and runoff and cont ewers.	eaned or rinsed out. Vapour from product ere inside the container. en cleaned thoroughly

## **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III		Ш
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

ADR/RID	This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.
Tunnel code	: (D/E)
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
IATA	: None identified.
14.6 Special pre user	cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk** : Not applicable. according to IMO instruments

- 2020/878 Code : 00150050 Date of issue/Date of revision : 20 December 2023 SIGMACOVER 456 BASE RAL 5010 **SECTION 15: Regulatory information** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation **Annex XIV** None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other national and international regulations. **Explosive precursors** : Not applicable. Ozone depleting substances (1005/2009/EU) Not listed. **15.2 Chemical safety** : No Chemical Safety Assessment has been carried out.
- assessment

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version

	Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	y 4
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category LONG-TERM (CHRONIC) AQUATIC HAZARD - Category	
	<ul> <li>H317 May cause an</li> <li>H318 Causes seriou</li> <li>H319 Causes seriou</li> <li>H320 Harmful if inha</li> <li>H335 May cause res</li> <li>H336 May cause dro</li> <li>H373 May cause dar</li> <li>H411 Toxic to aquati</li> <li>H412 Harmful to aquadi</li> </ul>	allergic skin reaction. s eye damage. s eye irritation.	
Full text of abbreviated H statements	H226 Flammable liqu		
Abbreviations and acronyms	1272/2008] DNEL = Derived No Effe	pelling and Packaging Regulation [Regulation (EC) No. ct Level pecific Hazard statement fect Concentration	

Code : 00150050		Date of issue/Date of revision	: 20 December 2023
SIGMACOVER 456 BASE RAL 5010			
SECTION 16: Othe	er information		
	Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B STOT RE 2 STOT SE 3	SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
<u>History</u>			
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Prepared by	: EHS		
Version	: 3.01		

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