SAFETY DATA SHEET

Date of issue/Date of revision

: 21 April 2022

Version : 4.01



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

1.1 Product identifier				
Product name	: SIGMACOVER 256/435/456/522 K HARDENER			
Product code	: 00223298			
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

Sigma Paints Egypt Villa#8, street 279 New Maadi, Cairo Egypt Tel: 00202 516 223 797 Fax: 00202 516 38 04	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com

1.4 Emergency telephone : +20 2 6840902 number

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 Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336 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 : 00223298	Date of issue/Date of revision : 21 April 2022
SIGMACOVER 256/435/456/52	
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	: IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Not applicable.
Hazardous ingredients	: xylene 2-methylpropan-1-ol Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 2,4,6-tris(dimethylaminomethyl)phenol 3,6-diazaoctanethylenediamin
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ents
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 vPv
Other hazards which do not result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

Code : 00223298 SIGMACOVER 256/435/456/522 K HARDENER Date of issue/Date of revision

: 21 April 2022

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture				
Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
₩ylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥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	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥10 - ≤25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥10 - <25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	[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	[1] [2]
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	[1]
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≥1.0 - <5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1] [2]

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

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SUB codes represent substances without registered CAS Numbers.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
Code : 00223298	Date of issue/Date of revision : 21 April 2022
SIGMACOVER 256/435/456/5	522 K HARDENER
SECTION 4: First aid	d measures
4.1 Description of first aid n	neasures
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
4.2 Most important symptor Potential acute health effe	ns and effects, both acute and delayed cts
Eye contact	Causes serious eye damage.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	<u>itoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immed	iate medical attention and special treatment needed
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

Conforms to Regulation (EC	lo. 1907/2006 (REACH), Annex II	
Code : 00223298	Date of issue/Date of revision : 21 April 2022	
SIGMACOVER 256/435/456/5	2 K HARDENER	
SECTION 5: Firefigh	ng 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	om 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 nitrogen oxides	
5.3 Advice for firefighters		
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Eva ente flare ade	action shall be taken involving any personal risk or without suitable training. cuate surrounding areas. Keep unnecessary and unprotected personnel from ering. Do not touch or walk through spilt material. Shut off all ignition sources. No es, smoking or flames in hazard area. Do not breathe vapour or mist. Provide quate ventilation. Wear appropriate respirator when ventilation is inadequate. Put appropriate personal protective equipment.
For emergency responders	in Ś	becialised clothing is required to deal with the spillage, take note of any information ection 8 on suitable and unsuitable materials. See also the information in "For non- ergency personnel".
6.2 Environmental precautions	sew poll	id dispersal of spilt material and runoff and contact with soil, waterways, drains and vers. Inform the relevant authorities if the product has caused environmental ution (sewers, waterways, soil or air). Water polluting material. May be harmful to environment if released in large quantities.
6.3 Methods and material for	ontaiı	nment and cleaning up
Small anill	Ctor	a look if without rick. Move containers from shill area. Use shork proof tools and

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.

Conforms to Regu	ulation (EC) No	o. 1907/2006 (REACH), Annex II	
Code : 00	223298	Date of issue/Date of revision	: 21 April 2022
SIGMACOVER 25	6/435/456/522	K HARDENER	
SECTION 6:	Accidenta	l release measures	
Large spill	:	Stop leak if without risk. Move containers from spill area. Us explosion-proof equipment. Approach the release from upwir sewers, water courses, basements or confined areas. Wash treatment plant or proceed as follows. Contain and collect sp combustible, absorbent material e.g. sand, earth, vermiculite place in container for disposal according to local regulations. waste disposal contractor. Contaminated absorbent material hazard as the spilt product.	nd. Prevent entry into spillages into an effluent illage with non- or diatomaceous earth and Dispose of via a licensed
6.4 Reference to e sections	other :	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protect See Section 13 for additional waste treatment information.	ive equipment.

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.
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 u	ISES

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II				
Code	: 00223298	Date of issue/Date of revision	: 21 April 2022	
SIGMACOVE	ER 256/435/456/522 K HARDENER			

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
xylene		EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
2-methylpropan-1-ol		ACGIH TLV (United States, 1/2021). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene		EV OEL (Europe, 10/2019). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
3,6-diazaoctanethylenediamin		IPEL (-). Absorbed through skin. TWA: 1 ppm
Recommended monitoring : procedures	atmosphere or bi the ventilation or protective equipm following: Europe assessment of ex values and meas atmospheres - G exposure to cher atmospheres - G measurement of	ntains ingredients with exposure limits, personal, workplace iological monitoring may be required to determine the effectiveness of other control measures and/or the necessity to use respiratory nent. Reference should be made to monitoring standards, such as the ean Standard EN 689 (Workplace atmospheres - Guidance for the xposure by inhalation to chemical agents for comparison with limit surement strategy) European Standard EN 14042 (Workplace buide for the application and use of procedures for the assessment of mical and biological agents) European Standard EN 482 (Workplace eneral requirements for the performance of procedures for the chemical agents) Reference to national guidance documents for determination of hazardous substances will also be required.
8.2 Exposure controls		
Appropriate engineering : controls	other engineering recommended of	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof ment.
Individual protection measure	<u>s</u>	
Hygiene measures :	eating, smoking a Appropriate tech Contaminated wo contaminated clo	earms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. niques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety se to the workstation location.
Eye/face protection : <u>Skin protection</u>	Chemical splash	goggles and face shield.
Hand protection		

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II				
Code : 00223298	Date of issue/Date of revision : 21 April 2022				
SIGMACOVER 256/435/456/522 K HARDENER					
SECTION 8: Exposu	re controls/personal 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	: nitrile neoprene				
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.				
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.				
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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Not available.
Odour	: Aromatic.
Odour threshold	: Not available.
рН	insoluble in water.
Melting point/freezing point	 May start to solidify at the following temperature: 12°C (53.6°F) This is based on data for the following ingredient: 3,6-diazaoctanethylenediamin. Weighted average: -82.48°C (-116.5°F)
Initial boiling point and boiling range	: >37.78°C
Flash point	: Closed cup: 26°C
Evaporation rate	: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.72compared with butyl acetate
Flammability (solid, gas)	: liquid

Code : 00223298 SIGMACOVER 256/435/456/522 K				Date of issue/Date of revision			: 21 April 2022	
SECTION 9: Physical an	nd	chemical prop	perties					
Upper/lower flammability or explosive limits	1	Greatest known rang	ge: Lower:	: 1.7% l	Jpper: 10.9%	(2-methy	lpropan-1	-ol)
Vapour pressure	:		Vapou	ur Press	sure at 20°C	Vap	our press	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2			
Vapour density	:	Highest known value		ir = 1) (3,6-diazaocta	nethylene	ediamin).	Weighted
		average: 3.26 (Air =	1)	, ,	,	,		5
Relative density	:	average: 3.26 (Air = 0.93	1)	, ,		,		5
Relative density Solubility(ies)		•	,	rials: co		ý		5
•	:	0.93 Insoluble in the follow	,	rials: co		,		5
Solubility(ies) Partition coefficient: n-octanol/	:	0.93 Insoluble in the follow	,	erials: co			Method	5
Solubility(ies) Partition coefficient: n-octanol/ water	:	0.93 Insoluble in the follow Not applicable.	wing mate		ld water.			
Solubility(ies) Partition coefficient: n-octanol/ water		0.93 Insoluble in the follow Not applicable.	ving mate	° C 337.78	ld water.		Method	
Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature		0.93 Insoluble in the follow Not applicable. Ingredient name 3,6-diazaoctanethylened	wing mate	°C 337.78 torage a	ld water. •F 640 nd handling o		Method	
Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature Decomposition temperature		0.93 Insoluble in the follow Not applicable. Ingredient name 3,6-diazaoctanethylened Stable under recomm Kinematic (room term	wing mate iamin nended si nperature) 21 mm²/s	°C 337.78 torage a	ld water. •F 640 nd handling o		Method	
Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature Decomposition temperature Viscosity		0.93 Insoluble in the follow Not applicable. Ingredient name 3,6-diazaoctanethylened Stable under recomm Kinematic (room term Kinematic (40°C): >2	wing mate iamin nended si nperature) 21 mm²/s	° C 337.78 torage a : >400 r	ld water. •F 640 nd handling o nm²/s		Method	

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity			
10.1 Reactivity	1	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	:	The product is stable.	
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.	
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	
10.6 Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides	

Date of issue/Date of revision

SECTION 11: Toxicological information

11.1 Information on toxicological effects

SIGMACOVER 256/435/456/522 K HARDENER

: 00223298

Acute toxicity

Code

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 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	-
Fatty acids, C18-unsatd., dimers,	LD50 Dermal	Rat	>2000 mg/kg	-
oligomeric reaction products with tall-oil				
fatty acids and triethylenetetramine				
	LD50 Oral	Rat	>2000 mg/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	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
-	LD50 Oral	Rat	1716 mg/kg	-

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

Acute toxicity estimates

Route	ATE value		
	21343.81 mg/kg		
Dermal	5209.08 mg/kg		
Inhalation (vapours)	40.13 mg/l		

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Skin - Irritant	Human	-	-	-
2,4,6-tris(dimethylaminomethyl)phenol	Eyes - Severe irritant Skin - Visible necrosis	Rabbit Rabbit	-	- 4 hours	- 7 days

Conclusion/Summary

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

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Respiratory Sensitisation

Eyes

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitising
2,4,6-tris(dimethylaminomethyl)phenol 3,6-diazaoctanethylenediamin	skin skin	Guinea pig Guinea pig	Sensitising Sensitising

Carcinogenicity	
<u>Mutagenicity</u> Conclusion/Summary	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Skin	: There are no data available on the mixture itself.
Conclusion/Summary	

English (GB)

onionna to regulation (EC) No. 1907/2006 (REACH), A	Annex II		
ode : 00223298 IGMACOVER 256/435/45	56/522 K HARDENER	Date of issue	/Date of revision	: 21 April 2022
	cological information			
Conclusion/Summary	: There are no data avail	able on the mixtu	re itself.	
Reproductive toxicity Conclusion/Summary	: There are no data avail	able on the mixtu	ro itcolf	
Teratogenicity				
Conclusion/Summary	: There are no data avail	able on the mixtu	re itself.	
Specific target organ to				
Product/	/ingredient name	Category	Route of exposure	Target organs
xylene		Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol		Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
Specific target organ to	xicity (repeated exposure)	outogoly o	1	
· · · ·	/ingredient name	Category	Route of	Target organs
i i oddeb		Category	exposure	
ethylbenzene		Category 2	-	hearing organs
Aspiration hazard				
Produ	uct/ingredient name			Result
xylene			IRATION HAZARE	
ethylbenzene		ASF	IRATION HAZARE) - Category 1
Potential acute health ef	: Can cause central nerv dizziness. May cause r	espiratory irritatio	n.	
Ingestion	: Corrosive to the digesting (CNS) depression.	ve tract. Causes	burns. Can cause	central nervous system
Skin contact	: Causes severe burns.	•	kin. May cause an	allergic skin reaction.
Eye contact	: Causes serious eye da	-		
	e physical, chemical and toxic	-		
Inhalation	: Adverse symptoms may respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	n	-	
Ingestion	: Adverse symptoms may stomach pains	y include the follo	wing:	
Skin contact	: Adverse symptoms may pain or irritation redness dryness cracking blistering may occur	y include the follo	wing:	
	5,			
Eye contact	: Adverse symptoms may pain watering redness	y include the follo	wing:	

English (GB)

Code : 00223298 SIGMACOVER 256/435/456/522 K HARDENER Date of issue/Date of revision

SECTION 11: Toxicological information

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	octs	
Not available.		
Conclusion/Summary	:	Not available.
General		Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	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.
Causaa digaatiya traat hurna	Dra	langed or repeated contect may dry skip and source irritation. Depeated synapsure to high

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. 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.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-

Conclusion/Summary	: There are no data available on the mixture itself.
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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Readily Not readily
ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

English (GB)	Egypt	12/15

SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	low
2-methylpropan-1-ol	1	-	low
ethylbenzene	3.6	79.43	low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

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	: Yes.
European waste catalog	jue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
ackaging	·
Mathada of dianaal	The generation of wests should be systered as minimized wherever possible. Wests

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)			
Container	15 01 06	mixed packaging		
Special precautions	taken when l Empty conta residues ma Do not cut, v	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.		

Date of issue/Date of revision

: 21 April 2022

SECTION 14: Transport information

SIGMACOVER 256/435/456/522 K HARDENER

: 00223298

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)
14.4 Packing group	Ш	Ш	III
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

Code

ADR/RID	: None identified.
Tunnel code	: (D/E)
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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 applicable.
according to IMO	
instruments	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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.

Ozone depleting substances (1005/2009/EU)

Not listed.

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

assessment

English (GB)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II				
Code : 00223298		Date of issue/Date of revision	: 21 April 2022	
SIGMACOVER 256/435/456/	522 K HARDENER			
SECTION 16: Other information				
Indicates information that	has changed from previous	ly issued version.		
Abbreviations and acronyms	1272/2008] DNEL = Derived No Ef	abelling and Packaging Regulation [Reg fect Level -specific Hazard statement Effect Concentration	gulation (EC) No.	
Full text of abbreviated H statements	H226Flammable liH302Harmful if swH304May be fatalH312Harmful in coH314Causes seveH315Causes skinH317May cause aH318Causes sericH319Causes sericH332Harmful if infH335May cause reH336May cause dH373May cause d	if swallowed and enters airways. ontact with skin. ere skin burns and eye damage. irritation. n allergic skin reaction. ous eye damage. ous eye irritation.	repeated exposure.	
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Category SERIOUS EYE DAMAGE/EYE IRF SERIOUS EYE DAMAGE/EYE IRF FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category SKIN CORROSION/IRRITATION - SKIN CORROSION/IRRITATION - SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	TIC HAZARD - Category 3 71 RITATION - Category 1 RITATION - Category 2 72 73 - Category 1B - Category 1C - Category 2 1 1A ICITY - REPEATED	
History Date of issue/ Date of revision	: 21 April 2022			
Date of previous issue	: 8 February 2022			
Prepared by	: EHS			
Version	: 4.01			
<u>Disclaimer</u>				

<u>Disclaimer</u>

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