Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

SAFETY DATA SHEET

Date of issue/Date of revision

: 17 January 2020 Version



: 1.05

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

1.1 Product identifier	
Product name	: SIGMACOVER 456 BASE BASE Z
Product code	: 00393188
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 th	e safety data sheet
Sigma Paint Saudi Arabia Ltd. PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	

e-mail address of person : ndpic@sfda.gov.sa responsible for this SDS

1.4 Emergency telephone : 00966 138473100 extn 1001 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 Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 1, H372 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

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SECTION 2: Hazards identification

Hazard pictograms		
Signal word	: Danger	
Hazard statements	 Flammable liquid and vapour. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory 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 protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.	
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with wate IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.	
Storage	: Store in a well-ventilated place. Keep cool.	
Disposal	: Not applicable.	
Hazardous ingredients	: Quartz (SiO2) xylene epoxy resin (MW ≤ 700) 2-methylpropan-1-ol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	
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>ents</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.	

SECTION 3: Composition/information on ingredients

: 00393188

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3.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
Quartz (SiO2)	EC: 238-878-4 CAS: 14808-60-7	≥10 - ≤25	STOT RE 1, H372 (inhalation)	[1] [2]
xylene	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]
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	[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	[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-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	[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]
2-Propenoicacid,2-ethylhexyleste reactionproductswithethylenediamine ethyleniminepolymer,compds. withpolyethylene- polypropyleneglycolmono- Buetherphosphate	, CAS: 398475-96-2	≤0.30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[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>

Code

- [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.

SECTION 4: First aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health eff	ects
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/syn</u>	<u>iptoms</u>
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.
4.3 Indication of any imme	diate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large

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

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SECTION 5: Firefight	ting measures	
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	otec	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	coi	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. 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.
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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). 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. 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. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. 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 oxidizing 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.

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

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters **Occupational exposure limits**

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SECTION 8: Exposure controls/personal protection

Product/ingredient i	name	Exposure limit values
		ACGIH TLV (United States, 3/2019). TWA: 0.025 mg/m³ 8 hours. Form: Respirable
xylene		EU OEL (Europe, 2/2017). Absorbed through skin. STEL: 442 mg/m ³ 15 minutes.
		STEL: 100 ppm 15 minutes. TWA: 221 mg/m³ 8 hours.
		TWA: 50 ppm 8 hours.
ethylbenzene		EU OEL (Europe, 2/2017). Absorbed through skin.
		STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes.
		TWA: 442 mg/m ³ 8 hours.
		TWA: 100 ppm 8 hours.
2-methylpropan-1-ol		ACGIH TLV (United States, 3/2019).
		TWA: 152 mg/m ³ 8 hours.
		TWA: 50 ppm 8 hours.
1-methoxy-2-propanol		EU OEL (Europe, 2/2017). Absorbed through skin.
		STEL: 568 mg/m ³ 15 minutes.
		STEL: 150 ppm 15 minutes.
		TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
	the following: E the assessment limit values and atmospheres - C exposure to che (Workplace atm for the measure	ment. Reference should be made to monitoring standards, such as uropean Standard EN 689 (Workplace atmospheres - Guidance for of exposure by inhalation to chemical agents for comparison with measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment of mical and biological agents) European Standard EN 482 ospheres - General requirements for the performance of procedures ment of chemical agents) Reference to national guidance nethods for the determination of hazardous substances will also be
3.2 Exposure controls		
Appropriate engineering : controls	ventilation or oth contaminants be also need to kee	lequate ventilation. Use process enclosures, local exhaust her engineering controls to keep worker exposure to airborne elow any recommended or statutory limits. The engineering controls ep gas, vapour or dust concentrations below any lower explosive osion-proof ventilation equipment.
Individual protection measures		
Hygiene measures :	eating, smoking Appropriate tech Contaminated w contaminated cl	rearms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. Inniques should be used to remove potentially contaminated clothing. York 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 : Skin protection	Chemical splash	n goggles.

SECTION 8: Exposure 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 particula conditions of use, as included in the user's risk assessment.	d. 1
Gloves	butyl rubber	
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharge 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.	s,
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 equipmen will be necessary to reduce emissions to acceptable levels.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physica	l 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: -94.9°C (-138.8°F) This is based on data for the following ingredient: ethylbenzene. Weighted average: -95.16°C (-139.3°F)
Initial boiling point and boiling range	: >37.78°C
Flash point	: Closed cup: 25°C
Evaporation rate	: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.78compared with butyl acetate
Flammability (solid, gas)	: liquid

SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)
Vapour pressure	: Highest known value: <1.6 kPa (<12 mm Hg) (at 20°C) (2-methylpropan-1-ol). Weighted average: 0.97 kPa (7.28 mm Hg) (at 20°C)
Vapour density	: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.63 (Air = 1)
Relative density	: 1.33
Solubility(ies)	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	: Not applicable.
Auto-ignition temperature	: Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).
Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7).
Viscosity	: Kinematic (40°C): >0.21 cm²/s
Explosive properties	: Product does not present an explosion hazard.
Oxidising properties	: Product does not present an oxidizing hazard.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
10.2 Chemical stability	: The product is stable.			
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.			
	Refer to protective measures listed in sections 7 and 8.			
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.			
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides 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	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
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SECTION 11: Toxicological in	nformatio	n					
5	LD50 Oral			Rat	5.2 g/kg		-
Octadecanoic acid, 12-hydroxy-, reaction	LC50 Inhal	ation Dusts	and	Rat	5.05 mg		4 hours
products with ethylenediamine	mists LD50 Oral			Rat	>2000 m	aa/ka	
					>2000 n	іу/ку	-
· · · · · · · · · · · · · · · · · · ·	re no data ava	allable on th	e mixt	ure itself.			
Acute toxicity estimates							
Route				FC4C 07 m m//		value	
Dermal Inhalation (vapours)				5616.07 mg/kg 50.64 mg/l	9		
Irritation/Corrosion				•			
Product/ingredient name	Res	ault	Spe	cies Score	Exp	osure	Observation
xylene	Skin - Mode		Rabb		-	s 500 mg	-
epoxy resin (MW ≤ 700)	Skin - Mild ir		Rabb		-	s ooo mg	-
	Eyes - Mild i	rritant	Rabb	pit -	-		-
Conclusion/Summary							
	e no data ava						
	e no data ava						
	e no data ava	ilable on the	e mixtu	ure itself.			
Sensitisation						1	
Product/ingredient name		Route expos		Speci	es	R	esult
epoxy resin (MW ≤ 700)		skin		Mouse		Sensitisi	na
Ctadecanoic acid, 12-hydroxy-, reaction products s				Guinea pig			•
with ethylenediamine	-						-
Conclusion/Summary							
Skin : There a	re no data ava	ailable on th	e mixt	ure itself.			
Respiratory : There a	re no data ava	ailable on th	e mixt	ure itself.			
<u>Mutagenicity</u>							
•	re no data ava	ailable on th	e mixt	ure itself.			
<u>Carcinogenicity</u>							
· · · · · · · · · · · · · · · · · · ·	re no data ava	ailable on th	e mixt	ure itself.			
Reproductive toxicity	na na data av	ilabla an th		una ita alf			
•	re no data ava	aliable on in	e mixi	ure ilsen.			
Teratogenicity Conclusion/Summary : There are no data available on the mixture itself.							
Conclusion/Summary : There a Specific target organ toxicity (single ex							
Product/ingredient nam	Ie	Cate	gory	Route of exposure		Target	organs
xylene		Categ	ory 3	Not applicabl	e. Res	spiratory ti	act irritation
2-methylpropan-1-ol	Categ		Not applicabl		cotic effe		
1-methoxy-2-propanol	Categ Categ		Not applicabl Not applicabl		spiratory ti cotic effe	act irritation	
Specific target organ toxicity (repeated	exposure)	9	, -	1 11 11		_	
Product/ingredient nam		Cate	aory	Route of		Target	organs
		Cale	gory	exposure		rarger	Julia
Quartz (SiO2)		Categ	ory 1	Inhalation	Not	determin	ed
ethylbenzene	Categ		Not determine	ed hea	aring orgai	าร	

Aspiration hazard

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SECTION 11: Toxicological information

Product/i	ngredient name	Result	
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure	: Not available.		
Potential acute health effect	<u>s</u>		
Inhalation	: May cause respiratory irritation		
Ingestion	: No known significant effects or	r critical hazards.	
Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.		
Eye contact	: Causes serious eye irritation.		
Symptoms related to the phy	vsical, chemical and toxicologic	al characteristics	
Inhalation	: Adverse symptoms may incluc respiratory tract irritation coughing	le the following:	
Ingestion	: No specific data.		
Skin contact	: Adverse symptoms may incluc irritation redness dryness cracking	le the following:	
Eye contact	 Adverse symptoms may include the following: pain or irritation watering redness 		
	Teaness		
Delayed and immediate effe		om short and long-term exposure	
Delayed and immediate effe		om short and long-term exposure	
		om short and long-term exposure	
Short term exposure Potential immediate	cts as well as chronic effects fro	om short and long-term exposure	
Short term exposure Potential immediate effects	cts as well as chronic effects fro	om short and long-term exposure	
Short term exposure Potential immediate effects Potential delayed effects	cts as well as chronic effects fro	om short and long-term exposure	
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate	 cts as well as chronic effects from the second se	om short and long-term exposure	
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	 cts as well as chronic effects from the second se	om short and long-term exposure	
Short term exposurePotential immediateeffectsPotential delayed effectsLong term exposurePotential immediateeffectsPotential delayed effectsPotential delayed effects	 cts as well as chronic effects from the second se	om short and long-term exposure	
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effe Not available.	 cts as well as chronic effects from Not available. Not available. Not available. Not available. 	om short and long-term exposure	
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effe	 cts as well as chronic effects from the second se	ough prolonged or repeated exposure. Prolonged or e skin and lead to irritation, cracking and/or dermatitis. rgic reaction may occur when subsequently exposed to	
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effe Not available. Conclusion/Summary	 cts as well as chronic effects from the second se	ough prolonged or repeated exposure. Prolonged or e skin and lead to irritation, cracking and/or dermatitis. rgic reaction may occur when subsequently exposed to	
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SECTION 11: Toxicological information

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eve contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with crosssensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains epoxy resin (MW ≤ 700), Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine. May produce an allergic reaction.

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 LC50 150 to 200 mg/l	Fish	96 hours
	Fresh water		
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l	Fish	96 hours
	Fresh water		
Octadecanoic acid, 12-hydroxy-, reaction products	Acute EC50 >100 mg/l	Algae -	72 hours
with ethylenediamine	_	Pseudokirchneriella	
-		subcapitata	
	Acute EC50 >10 mg/l	Daphnia - Daphnia	48 hours
	Ū.	magna	
	Acute LC50 >10 mg/l	Fish -	96 hours
		Oncorhynchus	
		mykiss	

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
epoxy resin (MW ≤ 700) Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	OECD 301F 301D Ready Biodegradability - Closed Bottle Test	5 % - 28 days 22 % - 28 days	-	-

Conclusion/Summary

: There are no data available on the mixture itself.

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SECTION 12: Ecological information				
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
xylene 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
xylene	3.16	7.4 to 18.5	low
epoxy resin (MW \leq 700)	3	31	low
ethylbenzene	3.15	79.43	low
2-methylpropan-1-ol	0.76	-	low
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	>5.86	-	high

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

<u>Product</u>	
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
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste

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

SECTION 13: Disposal considerations

Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN 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	III
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

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

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

14.7 Transport in bulk: Not applicable.according to Annex II of
Marpol and the IBC Code

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
<u>EU Regulation (EC) No. 1907/2006 (REACH)</u>
<u>Annex XIV - List of substances subject to authorisation</u>
<u>Annex XIV</u>
None of the components are listed.
<u>Substances of very high concern</u>
None of the components are listed.
<u>Annex XVII - Restrictions</u> : Not applicable.
on the manufacture,
placing on the market and
use of certain dangerous
substances, mixtures and

articles

SECTION 15: Regulatory information

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Full text of abbreviated H statements	:		nable liquid and		
		H312Harmful in cH315Causes skirH317May cause aH318Causes seriH319Causes seriH32Harmful if inH335May cause aH336May cause aH372Causes dan(inhalation)inhaled.H373May cause aH400Very toxic toH410Very toxic to	liquid and vapour if swallowed and ontact with skin. irritation. an allergic skin re- ous eye damage ous eye irritation. haled. espiratory irritation trowsiness or diz nage to organs the damage to organs the damage to organs the aquatic life. aquatic life with atic life with long	n. ziness. rough prolonged or repeated exposure s through prolonged or repeated exposure. s through prolonged or repeated exposure.	
Full text of classifications [CLP/GHS]	:	Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Acute 1, H40 Aquatic Chronic 1, H4 Aquatic Chronic 2, H4 Aquatic Chronic 3, H4 Aquatic Chronic 3, H4 Asp. Tox. 1, H304 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Stot RE 1, H372 (inhalation) STOT RE 1, H372 STOT RE 2, H373	ACUTE TO ACUTE TO SHORT-TE LONG-TER 1 LONG-TER 2 LONG-TER 3 ASPIRATIO SERIOUS E SERIOUS E FLAMMABL FLAMMABL FLAMMABL SKIN SENS SKIN SENS SKIN SENS SPECIFIC T EXPOSURE SPECIFIC T EXPOSURE	KICITY (dermal) - Category 4 KICITY (inhalation) - Category 4 RM (ACUTE) AQUATIC HAZARD - Cate M (CHRONIC) A CATE M (CHRON	ategory ategory ategory gory 1 gory 2 ED ED

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SECTION 16: Othe	SECTION 16: Other information				
	STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3			
	STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3			
<u>History</u>					
Date of issue/ Date of revision	: 17 January 2020				
Date of previous issue	: 3 November 2019				
Prepared by	: EHS				
Version	: 1.05				

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