SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

: 28 August 2024

Version

: 1.02

SECTION 1: Identif undertaking	ication of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMALINE 403 HS (41) HARDENER
Product code	: 000001088461
Other means of identifica 00332837; 00350158	ition
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Product use	: 🖻 rofessional applications, Used by spraying.
Use of the substance/ mixture	: Hardener.
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 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 Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 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 Hazard pictograms :

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SECTION 2: Hazards identification

	: Danger
Hazard statements	: Flammable liquid and vapour.
	Causes severe skin burns and eye damage.
	May cause an allergic skin reaction.
	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	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	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
	▶280, P210, P304 + P310, P301 + P310, P303 + P361 + P353, P501
Hazardous ingredients	: Epoxy Amine Resin Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-
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 requiren	nents
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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Epoxy Amine Resin	CAS: SUB127764	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	-	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts	[1] [2]
		English	(GB) United Arab B	Emirates	2/15

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SECTION 3: Comp		tion on i	ngredients		
	CAS: 100-51-6 Index: 603-057-00-5			and mists)] = 1.5 mg/l	
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	REACH #: 01-2119557899-12 EC: 618-561-0 CAS: 9046-10-0 (n = 2-6)	≥10 - ≤25	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	-	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥5.0 - <10	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]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤8.6	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]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
cyclohexanone	EC: 203-631-1 CAS: 108-94-1	≥1.0 - ≤4.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1800 mg/ kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 8000 ppm	[1] [2

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.

[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.

SECTION 4: First aid measures

4.1 Description of firs	t aid measures
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.

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SECTION 4: First aid	d measures		
Skin contact		aminated clothing and shoes. Wash skin thoroug ised skin cleanser. Do NOT use solvents or thinr	
Ingestion		seek medical advice immediately and show the c and at rest. Do NOT induce vomiting.	ontainer or label. Keep
Protection of first-aiders	suspected tha self-contained give mouth-to	Il be taken involving any personal risk or without t fumes are still present, the rescuer should wea breathing apparatus. It may be dangerous to th -mouth resuscitation. Wash contaminated clothin ng it, or wear gloves.	r an appropriate mask or e person providing aid to
4.2 Most important symptor	ns and effects, bo	th acute and delayed	
Potential acute health effe	<u>cts</u>		
Eye contact	: Causes seriou	us eye damage.	
Inhalation	: No known sig	nificant effects or critical hazards.	
Skin contact	: Causes sever	e burns. Defatting to the skin. May cause an all	ergic skin reaction.
Ingestion	: No known sig	nificant effects or critical hazards.	
Over-exposure signs/symp	<u>otoms</u>		
Eye contact	: Adverse sym pain watering redness	ptoms may include the following:	
Inhalation	: No specific d	ata.	
Skin contact	: Adverse sym pain or irritati redness dryness cracking blistering ma		
Ingestion	: Adverse sym	ptoms may include the following:	

4.3 Indication of any immediate 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.

SECTION 5: Firefighting measures

-
: Use dry chemical, CO ₂ , water spray (fog) or foam.
: Do not use water jet.
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.
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Conform: 2020/878	•	07/2006 (REACH), Annex II, as amended by Commissio	n Regulation (EU)
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SECTION 5: Firefighting measures

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	:	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. Do not breathe 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	co	ontainment 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 pop-

treatment plant or proceed as follows. Contain and collect spillage with noncombustible, 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	1	See Section 1 for emergency contact information.
sections		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). 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 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					
ethylbenzene	Abu Dhabi - OSHAD - Occupational air quality threshold limit					
	values (United Arab Emirates, 7/2016).					
	STEL: 543 mg/m ³ 15 minutes.					
	STEL: 125 ppm 15 minutes.					
	TWA: 100 ppm 8 hours.					
	TWA: 434 mg/m ³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).					
	STEL: 125 ppm 15 minutes.					
	TWA: 434 mg/m³ 8 hours. STEL: 543 mg/m³ 15 minutes.					
	TWA: 100 ppm 8 hours.					
	English (GB) United Arab Emirates 6/15					

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	ACGIH TLV (United States, 7/2023). Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or
	Indices 2002 Adoption.
	TWA: 20 ppm 8 hours.
xylene	Abu Dhabi - OSHAD - Occupational air quality threshold limit
	values (United Arab Emirates, 7/2016). [xylene (o, m & p
	isomers)]
	STEL: 651 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
	Cabinet Decree (12) of 2006 Regarding Regulation Concernir
	Protection of Air from Pollution (United Arab Emirates, 5/200
	[xylene (all isomers)]
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m ³ 8 hours.
	STEL: 651 mg/m ³ 15 minutes.
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 7/2023). [p-xylene and mixtures
	containing p-xylene] Ototoxicant.
	TWA: 20 ppm 8 hours.
2-methylpropan-1-ol	Abu Dhabi - OSHAD - Occupational air quality threshold limi
	values (United Arab Emirates, 7/2016).
	TWA: 152 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	Cabinet Decree (12) of 2006 Regarding Regulation Concerni
	Protection of Air from Pollution (United Arab Emirates, 5/200
	TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
	ACGIH TLV (United States, 7/2023).
	TWA: 152 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
cyclohexanone	Abu Dhabi - OSHAD - Occupational air quality threshold limi
· · · · · · · · · · · · · · · · · · ·	values (United Arab Emirates, 7/2016). Absorbed through sk
	TWA: 50 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	Protection of Air from Pollution (United Arab Emirates, 5/200
	Absorbed through skin.
	TWA: 100 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
	ACGIH TLV (United States, 7/2023). Absorbed through skin.
	Notes: Refers to Appendix A Carcinogens. ACGIH 2003
	Adoption
	STEL: 50 ppm 15 minutes.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

TWA: 20 ppm 8 hours.

8.2 Exposure controls

2020/878	No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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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 measu	res
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 Skin protection	: Chemical splash goggles and face shield.
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	: 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:
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	: Colourless.
Odour	: Aromatic.
Odour threshold	: Not available.
Melting point/freezing point	: May start to solidify at the following temperature: -15.4°C (4.3°F) This is based on data for the following ingredient: benzyl alcohol. Weighted average: -58.35°C (-73°F)

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SECTION 9: Physical a	nd	chemical prop	erties					
Initial boiling point and boiling range	:	>37.78°C						
Flammability	: Not available.							
Upper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1.3% Up	oper: 13% (b	enzyl alco	ohol)	
Flash point	:	Closed cup: 34°C						
Auto-ignition temperature	:	Ingredient name		°C	°F	1	Nethod	
		2-methylpropan-1-ol		415	779			
Decomposition temperature pH Viscosity Solubility(ies)		Stable under recomm Not applicable. Kinematic (40°C): >2		orage an	d handling c	onditions	(see Sec	tion 7).
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octano water	I/ :	Not applicable.						
Vapour pressure	:				Pressure at 20°C Va		our pres	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
Evaporation rate	:	Highest known value butyl acetate	: 0.84 (eth	ıylbenzer	ne) Weighte	d average	e: 0.43co	mpared with
Relative density		1						
Vapour density	:	Highest known value 1)	: 3.7 (Air	= 1) (bei	nzyl alcohol)	. Weight	ed averaç	ge: 3.54 (Air
Explosive properties	- 1	The product itself is r vapour or dust with a			he formation	of an exp	olosible n	nixture of
Oxidising properties	:	Product does not pre	sent an o	kidizing h	azard.			
Particle characteristics								
Median particle size	:	Not applicable.						
0.2 Other information								
No additional information.								
No additional information. SECTION 10: Stability	and	d reactivity						
SECTION 10: Stability		d reactivity specific test data rela	ted to rea	ctivity ava	ailable for th	is product	or its ing	redients.

10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions

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.

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SECTION 10: Stabilit	y and reactivity	ý					
10.5 Incompatible materials		he following materials to prevent strong exot strong alkalis, strong acids.	hermic reactions:				
10.6 Hazardous decomposition products	: Depending on cor carbon oxides nit	nditions, decomposition products may include rogen oxides	e the following materials:				

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	LD50 Dermal	Rat	2980 mg/kg	-
()	LD50 Oral	Rat	2885 mg/kg	_
ethylbenzene	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	17.8 mg/l 17.8 g/kg 3.5 g/kg	4 hours - -
xylene	LD50 Dermal LD50 Oral	Rabbit Rat	1.7 g/kg 4.3 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	24.6 mg/l 2460 mg/kg 2830 mg/kg	4 hours - -
cyclohexanone	LC50 Inhalation Gas. LD50 Dermal LD50 Oral	Rat Rabbit Rat	8000 ppm 1100 mg/kg 1800 mg/kg	4 hours - -

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredien	nt name	Result	Species	Score	Exposure	Observation
xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			•			•
Skin	: There are	no data available on the r	nixture itself			
Eyes	: There are	no data available on the r	nixture itself			
Respiratory	: There are	no data available on the r	nixture itself			
Sensitisation						
Conclusion/Summary						
Skin	: There are	no data available on the	mixture itsel ⁻	f.		
Respiratory	: There are	no data available on the	mixture itsel ⁻	f.		
Mutagenicity						
Conclusion/Summary	: There are	no data available on the	mixture itsel ⁻	f.		
Carcinogenicity						
Conclusion/Summary	: There are	no data available on the	mixture itsel	f.		
Reproductive toxicity						
Conclusion/Summary	: There are	no data available on the	mixture itsel	f.		
Teratogenicity						
Conclusion/Summary	: There are	no data available on the	mixture itsel [.]	f.		
•						

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SECTION 11: Toxicological information

Product/ing	gredient name	Category	Route of exposure	Target organs
Information on likely routes of exposure	: Not available.			
Potential acute health effe	<u>cts</u>			
Inhalation	: No known significant ef	ffects or critical haz	zards.	
Ingestion	: No known significant ef	ffects or critical haz	zards.	
Skin contact	: Causes severe burns.	Defatting to the sk	in. May cause an a	allergic skin reaction.
Eye contact	: Causes serious eye da	mage.		
Symptoms related to the p	hysical, chemical and toxi	cological charact	<u>eristics</u>	
Inhalation	: No specific data.			
Ingestion	: Adverse symptoms ma stomach pains	y include the follow	ving:	
Skin contact	: Adverse symptoms ma pain or irritation redness dryness cracking blistering may occur	y include the follow	ving:	
Eye contact	: Adverse symptoms ma pain watering redness	y include the follow	ving:	
Delayed and immediate eff	<u>fects as well as chronic eff</u>	ects from short a	nd long-term expo	<u>osure</u>
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	s : Not available.			
Long term exposure Potential immediate effects	: Not available.			
Potential delayed effects	s : Not available.			
Potential chronic health ef				
Not available.				
Conclusion/Summary	: Not available.			
General		tized, a severe alle		irritation, cracking and/or occur when subsequently
Carcinogenicity	: No known significant et	ffects or critical haz	zards.	
Mutagenicity	: No known significant ef	ffects or critical haz	zards.	
Reproductive toxicity	: No known significant ef	ffects or critical haz	zards.	
Other information	: Not available.			

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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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SECTION 11: Toxicological information

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	EC50 15 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-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 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.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	-	-	Readily Not readily
ethylbenzene xylene	-	-	Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
benzyl alcohol	0.87	-	Low
ethylbenzene	3.6	79.43	Low
xylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
cyclohexanone	0.86	-	Low

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

Not available.

12.7 Other adverse effects

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SECTION 12: Ecological information

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	: The classification of the product may meet the criteria for a hazardous waste.

: The classification of the product may meet the criteria for a hazardous waste.

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 packaging should be recycled. Incineration or landfill should only be considered where recycling is not feasible. 		
Type of packaging	European waste catalogue (EWC)		
Container	15 01 06 mixed packaging		
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.		

SECTION 14: Transport information

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

Additional information

ADR/RID : None identified.

Conforms to R 2020/878	Regulation (EC) N	o. 1907/2006 (REACH), Annex II, as amended by Commission	n Regulation (EU)
Code :	000001088461	Date of issue/Date of revision	: 28 August 2024
SIGMALINE 40	03 HS (41) HARDE	NER	
SECTION	14: Transpo	rt information	
Tunnel code	: (D/E)		
IMDG	: None identi	ïed.	
ΙΑΤΑ	: None identi	ïed.	
user 14.7 Transpor according to I instruments		upright and secure. Ensure that persons transporting the produ event of an accident or spillage. Not applicable.	uct know what to do in the
SECTION	15: Regulato	ory information	
15.1 Safety, h	ealth and environ	mental regulations/legislation specific for the substance or	mixture
EU Regulatio	on (EC) No. 1907/2	2006 (REACH)	
Annex XIV	- List of substanc	es subject to authorisation	
<u>Annex XIV</u>			
None of the	components are l	sted.	

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 assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
Full text of abbreviated H statements	 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

Conforms to Regulation (EC) 2020/878	No. 1907/2006 (REACH),	Annex II, as amended by Commission R	egulation (EU)
Code : 00000108846	1	Date of issue/Date of revision	: 28 August 2024
SIGMALINE 403 HS (41) HAR	DENER		
SECTION 16: Other i	information		
Full tout of close if instinger	H332 Harmful if inh H335 May cause re H336 May cause di H373 May cause di H412 Harmful to ac	espiratory irritation. rowsiness or dizziness. amage to organs through prolonged or repe quatic life with long lasting effects.	eated exposure.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC I ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITA SERIOUS EYE DAMAGE/EYE IRRITA FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Ca SKIN CORROSION/IRRITATION - Ca SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICIT EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICIT EXPOSURE - Category 3	ATION - Category 1 ATION - Category 2 Ategory 1C Ategory 2 TY - REPEATED
<u>History</u>			
Date of issue/ Date of revision	: 28 August 2024		
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<u>Disclaimer</u>			

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