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

: 7 October 2022

Version : 3



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

1.1 Product identifier	
Product name	: SIGMATHERM 540 ALUMINIUM/RAL9006
Product code	: 00393261
Product type	: Liquid.
Other means of identificati Not available.	on
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	f the safety data sheet
Sigma Paint Saudi Arabia Lto PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	1.
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone	: 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]

Fam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412

number

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
Signal word	: Danger
Hazard statements	 Frammable liquid and vapour. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: xylene [3-(2,3-epoxypropoxy)propyl]trimethoxysilane
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	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	: $\mathbf{\overline{p}}$ his 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
₩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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Wollastonite	EC: 237-772-5 CAS: 13983-17-0	≥10 - ≤25	Not classified.	-	[2]
		English	(GB) United Arab I	Emirates	2/15

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SECTION 3: Compo			•	1	
Solvent naphtha (petroleum), heavy arom. Nota(s) P	EC: 265-198-5 CAS: 64742-94-5 Index: 649-424-00-3	≥5.0 - ≤9.5	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥5.0 - ≤8.6	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	REACH #: 01-2119513212-58 EC: 219-784-2 CAS: 2530-83-8	≥5.0 - ≤10	Eye Dam. 1, H318	-	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
1-Butanol, titanium(4+) salt (4:1), homopolymer	CAS: 9022-96-2	≤1.7	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 500 mg/ kg	[1]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≤0.24	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	ATE [Oral] = 100 mg/ kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: C ≥ 10% STOT SE 2, H371: $3\% \le C < 10\%$	[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>

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

English (GB)

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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 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 traine personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and wate 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 self-contained breathing apparatus. It may be dangerous to the person providing aid give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with wate before removing it, or wear gloves.
4 2 Most important symptor	no and affects that he auto and delayed
	ns and effects, both acute and delayed cts
Potential acute health effe	-
	<u>cts</u>
Potential acute health effective Eye contact	 cts Causes serious eye damage. May cause respiratory irritation.
Potential acute health effect Eye contact Inhalation	cts : Causes serious eye damage.
Potential acute health effer Eye contact Inhalation Skin contact	 cts Causes serious eye damage. May cause respiratory irritation. Causes skin irritation. Defatting to the skin. No known significant effects or critical hazards.
Potential acute health effect Eye contact Inhalation Skin contact Ingestion	 cts Causes serious eye damage. May cause respiratory irritation. Causes skin irritation. Defatting to the skin. No known significant effects or critical hazards.
Potential acute health effect Eye contact Inhalation Skin contact Ingestion Over-exposure signs/symp	 cts Causes serious eye damage. May cause respiratory irritation. Causes skin irritation. Defatting to the skin. No known significant effects or critical hazards.
Potential acute health effect Eye contact Inhalation Skin contact Ingestion Over-exposure signs/symp Eye contact	 cts Causes serious eye damage. May cause respiratory irritation. Causes skin irritation. Defatting to the skin. No known significant effects or critical hazards. Dtoms Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: respiratory tract irritation

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

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

5.2 Special hazards arising from the substance or mixture

English (GB) United Arab Emirates	
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SECTION 5: Firefigh	ting measures		
Hazards from the substance or mixture	a fire or if heated risk of a subsequ effects. Fire wate	and vapour. Runoff to sewer may create fire , a pressure increase will occur and the conta ent explosion. This material is harmful to aq er contaminated with this material must be co arged to any waterway, sewer or drain.	ainer may burst, with the uatic life with long lasting
Hazardous combustion products	: Decomposition pr carbon oxides metal oxide/oxide	roducts may include the following materials:	
5.3 Advice for firefighters			
Special precautions for fire-fighters	there is a fire. No training. Move co	the scene by removing all persons from the v o action shall be taken involving any personal ontainers from fire area if this can be done wi e-exposed containers cool.	risk or without suitable
Special protective equipment for fire-fighters	apparatus (SCBA for fire-fighters (ir	Ild wear appropriate protective equipment an) with a full face-piece operated in positive p ncluding helmets, protective boots and gloves will provide a basic level of protection for che	ressure mode. Clothing s) conforming to European
SECTION 6: Acciden	tal release me	asures	

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

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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	: Fut on appropriate personal protective equipment (see Section 8). 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.

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

Product/ingredient name	Exposure limit values
<mark>xy</mark> lene	EU OEL (Europe, 10/2019). [xylene, mixed isomers] 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.
Wollastonite	ACGIH TLV (United States, 1/2021).
	TWA: 1 mg/m ³ 8 hours. Form: Inhalable fraction
1-methoxy-2-propanol	EU OEL (Europe, 10/2019). Absorbed through skin.
	STEL: 568 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
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SECTION 8: Exposur	e contro	Is/personal protection
ethylbenzene		EU 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.
toluene		EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 384 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 192 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
methanol		EU OEL (Europe, 10/2019). Absorbed through skin. TWA: 260 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Recommended monitoring procedures	atmosphe the ventil protective following assessm values ar atmosphe exposure atmosphe measure	oduct contains ingredients with exposure limits, personal, workplace ere or biological monitoring may be required to determine the effectiveness of lation or other control measures and/or the necessity to use respiratory e equipment. Reference should be made to monitoring standards, such as the : European Standard EN 689 (Workplace atmospheres - Guidance for the nent of exposure by inhalation to chemical agents for comparison with limit and measurement strategy) European Standard EN 14042 (Workplace eres - Guide for the application and use of procedures for the assessment of to chemical and biological agents) European Standard EN 482 (Workplace eres - General requirements for the performance of procedures for the ment of chemical agents) Reference to national guidance documents for for the determination of hazardous substances will also be required.
8.2 Exposure controls		
Appropriate engineering controls	other eng recomme vapour of	with adequate ventilation. Use process enclosures, local exhaust ventilation or gineering controls to keep worker exposure to airborne contaminants below any ended or statutory limits. The engineering controls also need to keep gas, r dust concentrations below any lower explosive limits. Use explosion-proof on equipment.
Individual protection measu	<u>res</u>	
Hygiene measures	eating, sr Appropria Wash co	ands, forearms and face thoroughly after handling chemical products, before moking and using the lavatory and at the end of the working period. ate techniques should be used to remove potentially contaminated clothing. Intaminated clothing before reusing. Ensure that eyewash stations and safety are close to the workstation location.
Eye/face protection <u>Skin protection</u>	: Chemica	Il splash goggles and face shield.
Hand protection	worn at a necessar during us noted tha glove ma protection frequently (breakthr When on (breakthr The user product is	Il-resistant, impervious gloves complying with an approved standard should be all times when handling chemical products if a risk assessment indicates this is ry. Considering the parameters specified by the glove manufacturer, check se that the gloves are still retaining their protective properties. It should be at the time to breakthrough for any glove material may be different for different anufacturers. In the case of mixtures, consisting of several substances, the n time of the gloves cannot be accurately estimated. When prolonged or y repeated contact may occur, a glove with a protection class of 6 rough time greater than 480 minutes according to EN 374) is recommended. Inly brief contact is expected, a glove with a protection class of 2 or higher rough time greater than 30 minutes according to EN 374) is recommended. In the the final choice of type of glove selected for handling this is the most appropriate and takes into account the particular conditions of use, led in the user's risk assessment.
Gloves	:	

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	✓or prolonged or repeated handling, use the following type of gloves:
	Not recommended: nitrile rubber Recommended: polyvinyl alcohol (PVA), butyl rubber, Viton®
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	: 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	1	Liquid.			
Colour	1	White.			
Odour	1	Aromatic.			
Odour threshold	:	Not available.			
Melting point/freezing point		May start to solidify at the follov data for the following ingredient Weighted average: -85.94°C (-	t: Solvent na		
Initial boiling point and boiling range	:	>37.78°C			
Flammability (solid, gas)	:	liquid			
Upper/lower flammability or explosive limits	:	Greatest known range: Lower:	1.48% Uppe	er: 13.74% (1-	methoxy-2-propanol)
•					1
Auto-ignition temperature	:	Ingredient name	°C	°F	Method
	:	Ingredient name Solvent naphtha (petroleum), heavy arom.	°C 220 to 250	° F 428 to 482	Method ASTM E 659
Auto-ignition temperature	:	Solvent naphtha (petroleum), heavy	220 to 250	428 to 482	ASTM E 659
Auto-ignition temperature Decomposition temperature		Solvent naphtha (petroleum), heavy arom.	220 to 250	428 to 482	ASTM E 659
	:	Solvent naphtha (petroleum), heavy arom. Stable under recommended sto	220 to 250	428 to 482	ASTM E 659
Auto-ignition temperature Decomposition temperature pH	:	Solvent naphtha (petroleum), heavy arom. Stable under recommended sto insoluble in water.	220 to 250	428 to 482	ASTM E 659
Auto-ignition temperature Decomposition temperature pH Viscosity	:	Solvent naphtha (petroleum), heavy arom. Stable under recommended sto insoluble in water.	220 to 250	428 to 482	ASTM E 659

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SECTION 9: Physic	al and	chemicalopro	perties						
Vapour pressure			Vapour Pressure at 20°C			Vapour pressure at 50°C			
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		ethylbenzene	9.3	1.2					
Evaporation rate		Highest known value butyl acetate	e: 0.84 (et	nylbenz	ene) Weighteo	laverage	e: 0.79co	mpared with	
Relative density	:	1.18							
Vapour density		Highest known value Weighted average: 4			3-(2,3-epoxypro	opoxy)pr	opyl]trime	∗thoxysilane).	

: Product does not present an explosion hazard.

: Product does not present an oxidizing hazard.

Explosive properties Oxidising properties Particle characteristics Median particle size

: Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stabilit	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 metal oxide/oxides				

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
x ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), heavy arom.	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
	LD50 Oral	Rat	>5 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LC50 Inhalation Dusts and mists	Rat	>5300 mg/m ³	4 hours
	LD50 Dermal	Rabbit	4.3 g/kg	-
	LD50 Oral	Rat	7.01 g/kg	-
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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	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
methanol	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Product/ingredient name	Result	Species	Score	Exposure	Observation
▼ylene [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Skin - Moderate irritant Eyes - Cornea opacity	Rabbit Rabbit	- 11.8	24 hours 500 mg 1 minutes	- 24 hours
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.			
<u>Sensitisation</u>					
Conclusion/Summary					
Skin : There	e are no data available on the	mixture itself	.		
Respiratory : There	e are no data available on the	mixture itself			
Mutagenicity					
Conclusion/Summary : There	e are no data available on the	mixture itself			
Carcinogenicity					
Conclusion/Summary : There	e are no data available on the	mixture itself			
Reproductive toxicity					
Conclusion/Summary : There	e are no data available on the	mixture itself	.		
<u>Teratogenicity</u>					
Conclusion/Summary : There	e are no data available on the	mixture itself			

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xvlene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), heavy arom. Nota(s) P	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
1-Butanol, titanium(4+) salt (4:1), homopolymer	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
toluene	Category 3	-	Narcotic effects
methanol	Category 1	-	-

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 2 Category 2	-	hearing organs -

Aspiration hazard

: 00393261 SIGMATHERM 540 ALUMINIUM/RAL9006

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SECTION 11: Toxicological information

Produc	ct/ingredient name	Result
xylene Solvent naphtha (petroleu ethylbenzene toluene	m), heavy arom. Nota(s) P	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
nformation on likely outes of exposure	: Not available.	
Potential acute health eff	ects	
Inhalation	: May cause respiratory i	rritation.
Ingestion	: No known significant ef	fects or critical hazards.
Skin contact	: Causes skin irritation. I	Defatting to the skin.
Eye contact	: Causes serious eye da	mage.
Symptoms related to the	physical, chemical and toxic	cological characteristics
Inhalation	: Adverse symptoms may respiratory tract irritation coughing	
Ingestion	: Adverse symptoms may stomach pains	y include the following:
Skin contact	: Adverse symptoms may pain or irritation redness dryness cracking blistering may occur	y include the following:
Eye contact	: Adverse symptoms may pain watering redness	y include the following:
	ffects as well as chronic effe	ects from short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effect	ts : Not available.	
Long term exposure Potential immediate effects	: Not available.	
Potential delayed effect	ts · Not available	
Potential chronic health e		
Not available.		
	National states	
Conclusion/Summary	: Not available.	
General	 Prolonged or repeated dermatitis. 	contact can defat the skin and lead to irritation, cracking and/c
Carcinogenicity	: No known significant ef	fects or critical hazards.
Mutagenicity	: No known significant ef	fects or critical hazards.
watagementy	5	
Reproductive toxicity	: No known significant ef	

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SECTION 11: Toxicological information

Folonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l	Fish	96 hours
	Fresh water		
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Acute LC50 324 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
e thylbenzene	-	79 % - Readily - 10 da	ys	-	-
Conclusion/Summary : There are no data available on the mixture itself.					
Product/ingredient name		Aquatic half-life	Photo	olysis	Biodegradability
xylene ethylbenzene toluene			- - -		Readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
♥ylene Solvent naphtha (petroleum), heavy arom. Nota(s) P	3.12 2.8 to 6.5	7.4 to 18.5 -	low high
1-methoxy-2-propanol ethylbenzene toluene methanol	<1 3.6 2.73 -0.77	- 79.43 8.32 -	low low low low

12.4 Mobility in soil

coefficient (Koc)

Soil/water partition : Not

: Not available.

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SECTION 12: Ecological information

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

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11* wa	aste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal

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

Type of packaging	European waste catalogue (EWC)			
Container	15 01 06	mixed packaging		
Special precautions	taken when 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. weld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.		

SECTION 14: Transport information

	ADR/RID	IMDG	IATA	
14.1 UN number or ID number	UN1263	UN1263	UN1263	
14.2 UN proper shipping name	PAINT	PAINT	PAINT	
14.3 Transport hazard class(es)	3	3	3	
		English (GB) United A	Arab Emirates	13/15

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SECTION 14: Tra	ansport informatior	ı		
14.4 Packing group		Ш	111	
14.5 Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
IATA : No	ne identified. one identified. ns for : Transport within	e. Ensure that persons transp	nsport in closed containers that are orting the product know what to do in the	
14.7 Transport in bulk according to IMO instruments	: Not applicable.			
SECTION 15: Re	gulatory information	on		
15.1 Safety, health and	l environmental regulation	s/legislation specific for the	substance or mixture	
	<u>lo. 1907/2006 (REACH)</u>			
Annex XIV - List of s	substances subject to auth	<u>orisation</u>		

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.

: No Chemical Safety Assessment has been carried out.

assessment

15.2 Chemical safety

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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

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	SECTION 16: Other information						
Full text of abbreviated H statements	H226Flammable liqH301Toxic if swalloH302Harmful if swalH304May be fatal ifH311Toxic in contarH312Harmful in corH315Causes skin irH318Causes seriouH319Causes seriouH331Toxic if inhaledH332Harmful if inhalH335May cause droH361dSuspected of dH370Causes damaH373May cause daH411Toxic to aquatH412Harmful to aquEUH066Repeated exp	Illowed. swallowed and enters airways. ct with skin. ntact with skin. ritation. Is eye damage. Is eye damage. Is eye irritation. d. aled. spiratory irritation. owsiness or dizziness. damaging the unborn child. ge to organs. mage to organs through prolonged or repeated exposure. ic life with long lasting effects. Jatic life with long lasting effects. osure may cause skin dryness or cracking.					
Full text of classifications [CLP/GHS]	: Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Irrit. 2 STOT RE 2 STOT SE 1 STOT SE 3	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Categor LONG-TERM (CHRONIC) AQUATIC HAZARD - Categor ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	ry 3 1				
<u>History</u>							
Date of issue/ Date of revision	: 7 October 2022						
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