SAFETY DATA SHEET

Date of issue/Date of revision

: 10 July 2021

Version : 2



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

1.1 Product identifier	
Product name	: SIGMALINE 2500 HARDENER
Product code	: 00437578
Product type	: Liquid.
Other means of identifica	tion
Not available.	
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.

Uses advised against : Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

Sigma Paint Saudi Arabia Ltd. PO Box 7509, Dammam 3147 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
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] Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361d Aquatic Chronic 2, H411 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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SIGMALINE 2500 HARDENER	
SECTION 2: Hazards	Jentification
Hazard pictograms	
Signal word	Danger
Hazard statements	Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging the unborn child. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	Wear protective gloves, protective clothing and eye or face protection. Avoid release the environment.
Response	Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hai Take off immediately all contaminated clothing. Rinse skin with water.
Storage	Not applicable.
Disposal	Not applicable.
Hazardous ingredients	provide (2.2.1) heptanebis (methylamine) benzyl alcohol salicylic acid N-(3-(trimethoxysilyl) propyl) ethylenediamine 2,4,6-tris (dimethylaminomethyl) phenol
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	<u>its</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 vF
Other hazards which do not result in classification	Causes digestive tract burns.

3.2 Mixtures

: Mixture

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SIGMALINE 2500 HARDENER

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
picyclo[2.2.1]heptanebis (methylamine)	EC: 260-280-7 CAS: 56602-77-8	≥50 - ≤75	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1] [2]
Formaldehyde, polymer with N,N- dimethyl-1,3-propanediamine and phenol	CAS: 445498-00-0	≥1.0 - ≤5.0	Acute Tox. 4, H302 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
salicylic acid	REACH #: 01-2119486984-17 EC: 200-712-3 CAS: 69-72-7 Index: 607-732-00-5	≥1.0 - ≤5.0	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d	[1]
N-(3-(trimethoxysilyl)propyl) ethylenediamine	EC: 217-164-6 CAS: 1760-24-3	≥1.0 - ≤5.0	Acute Tox. 4, H332 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≥1.0 - ≤3.5	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317	[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.

Туре

[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.

Eye contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

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SECTION 4: First aid	d measures
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 sympton	ns and effects, both acute and delayed
Potential acute health effe	
Eye contact	Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Over-exposure signs/symp	-
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immed	iate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic 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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II		
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SECTION 5: Firefight	ing measures	
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.	
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. 	
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: Acciden	tal release measures	
6.1 Personal precautions, pro	otective equipment and emergency procedures	
For non-emergency	: No action shall be taken involving any personal risk or without suitable training.	

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. 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. Collect spillage.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. 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. 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 spill 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.

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

SIGMALINE 2500 HARDENER SECTION 7: Handling and storage Protective measures Fut on appropriate personal protective equipment (see Section 8). Persons whistory of skin sensitization problems should not be employed in any process this product is used. Avoid exposure - obtain special instructions before use. exposure during pregnancy. Do not handle until all safety precautions have b and understood. Do not get in eyes or on skin or clothing. Do not breathe vamist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep original container or an approved alternative made from a compatible materiatightly closed when not in use. Empty containers retain product residue and chazardous. Do not reuse container. Advice on general occupational hygiene Eating, drinking and smoking. Remove contaminated clothing and protective equipmentering eating areas. See also Section 8 for additional information on hygier 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 and with local regulations. Store in original container protected from direct sunligh cool and well-ventilated area, away from incompatible materials (see Section food and drink. Store locked up. Keep container tightly closed and sealed ur	2021
 Protective measures i Put on appropriate personal protective equipment (see Section 8). Persons whistory of skin sensitization problems should not be employed in any process this product is used. Avoid exposure - obtain special instructions before use, exposure during pregnancy. Do not handle until all safety precautions have be and understood. Do not get in eyes or on skin or clothing. Do not breathe varies. Do not ingest. Avoid release to the environment. Use only with adequative ventilation. Wear appropriate respirator when ventilation is inadequate. Keep original container or an approved alternative made from a compatible materiatightly closed when not in use. Empty containers retain product residue and chazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this materia handled, stored and processed. Workers should wash hands and face before drinking and smoking. Remove contaminated clothing and protective equipment entering eating areas. See also Section 8 for additional information on hygier measures. Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in adwith local regulations. Store in original container protected from direct sunligh cool and well-ventilated area, away from incompatible materials (see Section food and drink. Store locked up. Keep container tightly closed and sealed up. 	
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storage, including any incompatibilities with local regulations. Store in original container protected from direct sunligh cool and well-ventilated area, away from incompatible materials (see Section food and drink. Store locked up. Keep container tightly closed and sealed ur	re eating, nent before
for use. Containers that have been opened must be carefully resealed and ke to prevent leakage. Do not store in unlabelled containers. Use appropriate c to avoid environmental contamination. See Section 10 for incompatible mate handling or use.	ht in a dry, n 10) and ntil ready cept upright containment

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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

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
penzyl alcohol	IPEL (-). TWA: 5 ppm STEL: 10 ppm
procedures atmosphere or the ventilation of protective equip following: Europ assessment of evalues and mea atmospheres - (exposure to che atmospheres - (measurement of the structure) assessment of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) assessment of the structure atmospheres - (measurement of the structure) atmospheres - (measurement of	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness of or other control measures and/or the necessity to use respiratory oment. Reference should be made to monitoring standards, such as the pean Standard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit asurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment of emical and biological agents) European Standard EN 482 (Workplace General requirements for the performance of procedures for the of chemical agents) Reference to national guidance documents for e determination of hazardous substances will also be required.

8.2 Exposure controls

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SIGMALINE 2500 HARDENEF	
•	e controls/personal protection
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation of other engineering controls to keep worker exposure to airborne contaminants below an recommended or statutory limits.
Individual protection measu	<u>'es</u>
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 <u>Skin protection</u>	: 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	: 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.
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 physic Appearance	cal and chemical properties
Physical state	: Liquid.
Colour	: Colourless.
Odour	: Aromatic. [Slight]
Odour threshold	: Not available.
рН	: insoluble in water.
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: -15.71°C (3.7°F)

English (GB)

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SECTION 9: Physical an	d	chemical prop	erties						
Initial boiling point and boiling range	:	>37.78°C							
Flash point	÷	Closed cup: 64°C							
Evaporation rate	÷	0.007 (benzyl alcohol) compared with butyl acetate							
Flammability (solid, gas)	÷	liquid							
Upper/lower flammability or explosive limits	:	Greatest known rang (methylamine))	e: Lower:	18.3% l	Jpper:	46.6%	(bicyc	lo[2.2.1]hep	otanebis
Vapour pressure		:	Vapour Pressure at 20°C Va			Va	apour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Meth	od	mm Hg	kPa	Method
		pi cyclo[2.2.1]heptanebis (methylamine)	6.97557195	0.93					
Vapour density	:	Highest known value	: 3.7 (Air	= 1) (be	nzyl al	cohol).			
Relative density	:	1.03							
Solubility(ies)	1	Insoluble in the follow	ing mate	rials: colo	d wate	r.			
Partition coefficient: n-octanol/ water	:	Not applicable.							
Auto-ignition temperature	:	Ingredient name		°C		°F		Method	
		2,4,6-tris(dimethylaminom	ethyl)phenc	1 382		719.6		EU A.15	
Decomposition temperature	÷	Stable under recomm	nended st	orage an	d hand	dling co	nditior	ns (see Sec	tion 7).
Viscosity	:	Kinematic (40°C): >2	1 mm²/s						
Explosive properties	:	Product does not present an explosion hazard.							
Oxidising properties	:	Product does not pre	sent an o	kidizing h	nazard				

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 nitrogen oxides Formaldehyde. metal oxide/oxides		

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Scyclo[2.2.1]heptanebis(methylamine)	LD50 Oral	Rat	961 to 1400 mg/ kg	-
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	-
salicylic acid	LD50 Oral	Rat	0.891 g/kg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Oral	Rat	2413 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-

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

Acute toxicity estimates

Route	ATE value
Øral	681.92 mg/kg
Dermal	81232.19 mg/kg
Inhalation (vapours)	291.17 mg/l
Inhalation (dusts and mists)	4.6 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,4,6-tris(dimethylaminomethyl)phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days

Conclusion/Summary

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

: There are no data available on the mixture itself.

Respiratory Sensitisation

Skin

Eyes

sure	
Guinea pig	Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxi	<u>city (single exposure)</u>
Not available.	

Specific target organ toxicity (repeated exposure)

English (GB)

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SECTION 11: Toxicological information

Not available.

Not available.	
Aspiration hazard	
Not available.	
Information on likely routes of exposure	: Not available.
Potential acute health effect	-
Inhalation	: Harmful if inhaled.
Ingestion	: Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
	vsical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate effect	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>cts</u>
Not available.	
Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging the unborn child.
Other information	: Not available.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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SECTION 11: Toxicological information

Zauses digestive tract burns. 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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
salicylic acid	Acute EC50 1147.57 mg/l Fresh water	Daphnia - Daphnia Iongispina - Neonate	48 hours
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours

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

12.2 Persistence and degradability

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
salicylic acid	0.87 2.21 to 2.26	-	low low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	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 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.

English (GB)	Saudi Arabia	11/14

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SECTION 13: Disposal considerations

Hazardous waste	: Yes.
European waste catalog	gue (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 when 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN3066	UN3066	UN3066
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	II	П	11
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Formaldehyde, polymer with N,N-dimethyl- 1,3-propanediamine and phenol)	Not applicable.

Additional information

ADR/RID	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. 	
Tunnel code	: (E)	
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.	
IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.		
14.6 Special pred user	cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	
14.7 Transport ir according to IMC instruments		

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorisation
Annex XIV
None of the components are listed.
Substances of very high concern
None of the components are listed.
Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Other national and international regulations.
Ozone depleting substances (1005/2009/EU)
Not listed.
15.2 Chemical safety : No Chemical Safety Assessment has been carried out.

assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that had a second s	s changed from previously is	ssued version.
Abbreviations and acronyms	: ATE = Acute Toxicity Esti CLP = Classification, Laboret 1272/2008] DNEL = Derived No Effect EUH statement = CLP-sp PNEC = Predicted No Effect RRN = REACH Registrati	elling and Packaging Regulation [Regulation (EC) No. t Level ecific Hazard statement ect Concentration
Full text of abbreviated H statements	H317May cause an aH318Causes seriousH319Causes seriousH32Harmful if inhaleH361dSuspected of daH400Very toxic to aqH410Very toxic to aqH411Toxic to aquatic	act with skin. skin burns and eye damage. Ilergic skin reaction. eye damage. eye irritation. ed. amaging the unborn child.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Sens. 1 Skin Sens. 1B	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1B
History		

Conforms to Regulation (E	C) No. 1907/2006 (REACH), Annex II	
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SIGMALINE 2500 HARDEN	ER		
SECTION 16: Other	r information		
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Date of previous issue	: 11 March 2020		
Prepared by	: EHS		
Version	: 2		
B ¹ 1 1			

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