SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

: 5 July 2024

Version

: 4

SECTION 1: Identifi undertaking	cation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: HI-TEMP 1027HD CURE
Product code	: 00436788
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	of the safety data sheet
Sigma Paint Saudi Arabia L PO Box 7509 Dammam 31472 Saudi Arabia	td.
Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
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. 2, H225

Acute Tox. 4, H302 Eye Irrit. 2, H319 Repr. 1B, H360FD 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.



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SECTION 2: Hazards identification

Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapour. Harmful if swallowed. Causes serious eye irritation. May damage fertility. May damage the unborn child. Toxic 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. Avoid release to the environment.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention.
Storage	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P308 + P313, P501
Hazardous ingredients	: barium diboron tetraoxide
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to professional users.
Special packaging requirem	<u>ients</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	Phis mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
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
Wollastonite	EC: 237-772-5 CAS: 13983-17-0	≥10 - ≤25	Not classified.	-	[2]
barium diboron tetraoxide	REACH #: 01-2119983530-36 EC: 237-222-4 CAS: 13701-59-2 Index: 056-005-00-3	≥10 - ≤25	Acute Tox. 3, H301 Acute Tox. 4, H332 Repr. 1B, H360FD (oral)	ATE [Oral] = 100 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
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SECTION 3: Compo	sition/informat	tion on ii	ngredients		
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≥10 - ≤16	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤8.7	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]
Solvent naphtha (petroleum), heavy arom. Nota(s) P	REACH #: 01-2119451097-39 EC: 265-198-5 CAS: 64742-94-5 Index: 649-424-00-3	≥5.0 - ≤10	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥1.0 - ≤6.7	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[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]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤1.2	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] = 790 mg/ kg	[1] [2
naphthalene	REACH #: 01-2119561346-37 EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2	<1.0	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 490 mg/ kg M [Acute] = 1 M [Chronic] = 1	[1] [2
2-ethylhexanoic acid, cerium salt	EC: 246-332-1 CAS: 24593-34-8 Index: 607-230-00-6	<0.30	Repr. 1B, H360D Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
octamethylcyclotetrasiloxane	REACH #: 01-2119529238-36 EC: 209-136-7 CAS: 556-67-2 Index: 014-018-00-1	≤0.016	Repr. 2, H361f Aquatic Chronic 1, H410 See Section 16 for	M [Chronic] = 10	[1] [2 [3] [4
			the full text of the H statements declared above.		

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SECTION 3: Composition/information on ingredients

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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <u>Type</u>

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

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	1	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects Eye contact : Causes serious eye irritation. : No known significant effects or critical hazards. Inhalation : Defatting to the skin. May cause skin dryness and irritation. Skin contact : Harmful if swallowed. Ingestion Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain or irritation 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: irritation drvness cracking reduced foetal weight increase in foetal deaths skeletal malformations

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SECTION 4: First aid measures

Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	
4.3 Indication of any imm	nediate medical attention and special treatment needed	

Notes to physician	: I reat 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

Hazards from the substance or mixture	: Highly 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 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.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides phosphorus 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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SECTION 6: Accidental release measures

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 fo	r 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.

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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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.

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SECTION 7: Handling and storage

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				
₩ollastonite	ACGIH TLV (United States, 7/2023).				
barium diboron tetraoxide	TWA: 1 mg/m ³ 8 hours. Form: Inhalable fraction Abu Dhabi - OSHAD - Occupational air quality threshold limit				
	values (United Arab Emirates, 7/2016). [barium and soluble				
	compounds]				
	TWA: 0.5 mg/m ³ , (as Ba) 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning				
	Protection of Air from Pollution (United Arab Emirates, 5/2006).				
	[barium compounds (soluble)] Absorbed through skin.				
	TWA: 0.5 mg/m³, (as Ba) 8 hours.				
	ACGIH TLV (United States, 7/2023). [Barium and soluble				
	compounds] Notes: as Ba TWA: 0.5 mg/m³, (as Ba) 8 hours.				
xylene	Abu Dhabi - OSHAD - Occupational air quality threshold limit				
xylene	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 Concerning				
	Protection of Air from Pollution (United Arab Emirates, 5/2006).				
	[xylene (all isomers)]				
	STEL: 150 ppm 15 minutes.				
	TWA: 434 mg/m³ 8 hours. STEL: 651 mg/m³ 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.				
zinc oxide	Cabinet Decree (12) of 2006 Regarding Regulation Concerning				
	Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m ³ 8 hours. Form: fumes				
	STEL: 10 mg/m ³ 15 minutes. Form: fumes				
	Abu Dhabi - OSHAD - Occupational air quality threshold limit				
	values (United Arab Emirates, 7/2016).				
	STEL: 10 mg/m ³ 15 minutes. Form: measured as respirable fraction				
	of the aerosol and fume TWA: 2 mg/m ³ 8 hours. Form: measured as respirable fraction of				
	the aerosol and fume				
	ACGIH TLV (United States, 7/2023). Notes: Respirable fraction;				
	see Appendix C, paragraph C. ACGIH 2003 Adoption				
	STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction				
ethylbenzene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).				
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butan-1-ol		 STEL: 543 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 434 mg/m³ 8 hours. Cabinet Decree (12) of 2006 Regarding Reprotection of Air from Pollution (United A STEL: 125 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. STEL: 543 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 7/2023). Ototo Substances for which there is a Biological Indices 2002 Adoption. TWA: 20 ppm 8 hours. Abu Dhabi - OSHAD - Occupational air quivalues (United Arab Emirates, 7/2016). STEL: 50152 ppm 15 minutes. TWA: 61 mg/m³ 8 hours. Cabinet Decree (12) of 2006 Regarding Reprotection of Air from Pollution (United A Absorbed through skin. CLV: 152 mg/m³ CLV: 50 ppm ACGIH TLV (United States, 7/2023). Note TWA: 20 ppm 8 hours. 	egulation Concerning
Recommended monitoring procedures	Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	d be made to monitoring standards, such as t 9 (Workplace atmospheres - Guidance for the chemical agents for comparison with limit valu ean Standard EN 14042 (Workplace atmosph use of procedures for the assessment of expo s) European Standard EN 482 (Workplace atr the performance of procedures for the measure to national guidance documents for metho bstances will also be required.	e assessment of exposure es and measurement eres - Guide for the sure to chemical and mospheres - General urement of chemical
8.2 Exposure controls			
Appropriate engineering controls	other engineerin recommended o	equate ventilation. Use process enclosures, I g controls to keep worker exposure to airborn r statutory limits. The engineering controls als oncentrations below any lower explosive limits ment.	e contaminants below any so need to keep gas,
Individual protection measured	ures		
Hygiene measures	eating, smoking Appropriate tech Wash contamina	rearms and face thoroughly after handling che and using the lavatory and at the end of the w iniques should be used to remove potentially o ated clothing before reusing. Ensure that eyew se to the workstation location.	orking period. contaminated clothing.
Eye/face protection Skin protection	: Chemical splash	goggles.	
Hand protection	worn at all times necessary. Con- during use that th noted that the tin glove manufactu protection time o	ant, impervious gloves complying with an appr when handling chemical products if a risk ass sidering the parameters specified by the glove he gloves are still retaining their protective pro- ne to breakthrough for any glove material may irrers. In the case of mixtures, consisting of se of the gloves cannot be accurately estimated. ted contact may occur, a glove with a protection	sessment indicates this is e manufacturer, check operties. It should be be different for different everal substances, the When prolonged or
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Conforms to Regulation (EC 2020/878	C) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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	(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	: For prolonged or repeated handling, use the following type of gloves:
	May be used: nitrile rubber Recommended: Chloroprene, butyl rubber, neoprene, polyvinyl alcohol (PVA), 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	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>							
Physical state	:	Liquid.					
Colour	1	Colourless.					
Odour	1	Characteristic.					
Odour threshold	1	Not available.					
Melting point/freezing point	:	May start to solidify at the follow data for the following ingredient $(-42.6^{\circ}F)$					
Initial boiling point and boiling range	:	>37.78°C					
Flammability	:	Not available.					
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 7	Greatest known range: Lower: 1.4% Upper: 11.3% (butan-1-ol)				
Flash point	:	Closed cup: 17.22°C					
Auto-ignition temperature	:	Ingredient name	°C	°F	Method		
		Solvent naphtha (petroleum), heavy arom.	220 to 250	428 to 482	ASTM E 659		
Decomposition temperature		Stable under recommended sto	rage and ha	ndling conditi	ons (see Section 7).		
pH	:	Not applicable. insoluble in wate	er.	-	. ,		
Viscosity	:	Kinematic (40°C): >21 mm²/s					
Solubility(ies)	1						
Media		Result					
		Not soluble					

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SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/ : Not applicable.

Vapour pressure		Les et al.	Vapour Pressure at 20°C			Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		dimethyl carbonate	56.78	7.6	OECD 104			
Evaporation rate	:	Highest known value with butyl acetate	e: 3.22 (dir	nethyl c	carbonate) We	ighted av	/erage: 2	.19compared
Relative density	:	1.65						
Vapour density	:	Highest known value	e: 3.7 (Air	= 1) (x	ylene). Weigh	ted avera	age: 3.3	(Air = 1)
Explosive properties	:	The product itself is vapour or dust with a	•		t the formation	of an exp	olosible m	nixture of
Oxidising properties	:	Product does not pre	esent an o	xidizing) hazard.			
Particle characteristics								
Median particle size	:	Not applicable.						

9.2 Other information

No additional information.

SECTION 10: Stability	and reactivity
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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 phosphorus oxides Formaldehyde. metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sarium diboron tetraoxide	LC50 Inhalation Dusts and	Rat	1.5 mg/l	4 hours
	mists LD50 Dermal	Rabbit	>2000 mg/kg	_
	LD50 Oral	Rat	100 mg/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and	Rat	>5.7 mg/l	4 hours
	mists		_	
	LD50 Oral	Rat	>5000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
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Solvent naphtha (petroleum), heavy arom.	LC50 Inhalation Dusts and	Rat	>5.2 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>5 g/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m ³	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-
octamethylcyclotetrasiloxane	LC50 Inhalation Vapour	Rat	36 g/m ³	4 hours
	LD50 Dermal	Rat	>2375 mg/kg	-
	LD50 Oral	Rat	>4800 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation
x ylene		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.		
Specific target organ toxic	city (single exp	osure)				

Target organs Product/ingredient name Category **Route of** exposure Category 3 Respiratory tract irritation xylene -Solvent naphtha (petroleum), heavy arom. Nota(s) P Category 3 -Narcotic effects butan-1-ol Category 3 Respiratory tract irritation Category 3 Narcotic effects

Specific target organ toxicity (repeated exposure)

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

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SECTION 11: Toxicological information

Aspiration hazard

Aspiration hazard		
Product/	ingredient name	Result
xylene Solvent naphtha (petroleum), heavy arom. Nota(s) P ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health effect	<u>:ts</u>	
Inhalation	: No known significant effects or c	ritical hazards.
Ingestion	: Harmful if swallowed.	
Skin contact	: Defatting to the skin. May cause	skin dryness and irritation.
Eye contact	: Causes serious eye irritation.	
Symptoms related to the pl	hysical, chemical and toxicological	<u>characteristics</u>
Inhalation	: Adverse symptoms may include the reduced foetal weight increase in foetal deaths skeletal malformations	the following:
Ingestion	: Adverse symptoms may include the reduced foetal weight increase in foetal deaths skeletal malformations	the following:
Skin contact	: Adverse symptoms may include the irritation dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations	the following:
Eye contact	: Adverse symptoms may include t pain or irritation watering redness	the following:
Delayed and immediate effe	ects as well as chronic effects from	<u>short and long-term exposure</u>
Short term exposure		
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 eff Not available.	ects	
Conclusion/Summary	: Not available.	
General		an defat the skin and lead to irritation, cracking and/or
Carcinogenicity	: No known significant effects or c	ritical hazards.
Mutagenicity	: No known significant effects or ci	
Reproductive toxicity	: May damage fertility. May damag	

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Other information

: Not available.

Prolonged 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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F. 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
rizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l	Daphnia - Daphnia	48 hours
	Fresh water	magna - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water		
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
2-ethylhexanoic acid, cerium salt	Acute LC50 0.5 mg/l Fresh	Fish	96 hours
-	water		
octamethylcyclotetrasiloxane	Chronic NOEC 100 mg/l	Daphnia - Daphnia	21 days
	Fresh water	magna	

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 days -		-	-
Conclusion/Summary : There are no data available on the mixture itself.					
Product/ingredient name		Aquatic half-life	Photo	lysis	Biodegradability
<mark>ky</mark> lene ethylbenzene		-	-		Readily Readily

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

	-		
Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
Solvent naphtha (petroleum), heavy arom. Nota(s) P	2.8 to 6.5	-	High
ethylbenzene	3.6	79.43	Low
butan-1-ol	1	-	Low
naphthalene	3.4	85.11	Low
octamethylcyclotetrasiloxane	6.488	-	High

12.4 Mobility in soil	
Soil/water partition	:
661 1 6 11 6 N	

coefficient (Koc)	
Mobility	: Not available.

Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
x ylene	No	N/A	No	No	No	N/A	No
Solvent naphtha (petroleum), heavy arom. Nota(s) P	No	N/A	N/A	No	N/A	N/A	N/A
ethylbenzene	No	N/A	No	Yes	No	N/A	No
butan-1-ol	No	N/A	N/A	No	N/A	N/A	N/A
naphthalene	No	N/A	No	No	No	N/A	No
octamethylcyclotetrasiloxane	SVHC (Recommended)	Specified	Specified	Specified	SVHC (Recommended)	Specified	Specified

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

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

European waste catalogue (EWC)

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

Packaging

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878		
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SECTION 13: Disp	osal considerations	
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. 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	ΙΑΤΑ
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
14.4 Packing group	П	11	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	∦ rizinc bis(orthophosphate))	Not applicable.

Additional information

instruments

/ automai inton	
ADR/RID	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special pre 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 i according to IM	

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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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
F oxic to reproduction	barium diboron tetraoxide		D(2022) 9120-DC	1/17/2023
PBT	octamethylcyclotetrasiloxane	Recommended	ED/71/2019	4/14/2021
vPvB	octamethylcyclotetrasiloxane	Recommended	ED/71/2019	4/14/2021

: Restricted to professional users. **Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other national and international regulations.

: Not applicable. **Explosive precursors**

Ozone depleting substances (1005/2009/EU) Not listed.

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that	as 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	 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H322 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H360D May damage the unborn child. H360FD May damage fertility. May damage the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life.
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SECTION 16: Other	nformation
	 H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	: Acute Tox. 3ACUTE TOXICITY - Category 3Acute Tox. 4ACUTE TOXICITY - Category 4Aquatic Acute 1SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1Aquatic Chronic 1LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Aquatic Chronic 2LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3Asp. Tox. 1ASPIRATION HAZARD - Category 1Carc. 2CARCINOGENICITY - Category 2Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Repr. 1BREPRODUCTIVE TOXICITY - Category 1Repr. 2SKIN CORROSION/IRRITATION - Category 2Skin Irrit. 2SKIN CORROSION/IRRITATION - Category 2STOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 3SPECIFIC TARGET ORGAN TOXICITY - SINGLEEXPOSURE - Category 3SPECIFIC TARGET ORGAN TOXICITY - SINGLE
<u>History</u>	
Date of issue/ Date of revision	: 5 July 2024
Date of previous issue	: 23 October 2023
Prepared by	: EHS
Version	: 4

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