SAFETY DATA SHEET

Date of issue/Date of revision

: 26 September 2022 Version : 5



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

1.1 Product identifier	
Product name	: SIGMAGUARD 730 HARDENER
Product code	: 00247816
Product type	: Liquid.
Other means of identificat	tion
Not available.	
	 s of the substance or mixture and uses advised against Professional applications, Used by spraying.
1.2 Relevant identified uses	•

Sigma Paint Saudi Arabia Ltd. PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 3100 Fax: 00966 138471734 e-mail address of person : ndpic@sfda.gov.sa responsible for this SDS **1.4 Emergency telephone** : 00966 138473100 extn 1001 number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture **Product definition** : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351 STOT SE 3, H335 STOT SE 3, H336

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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SIGMAGUARD 730 HARDEN	
SECTION 2: Hazards	identification
Signal word	: Danger
Hazard statements	 Frammable liquid and vapour. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.
Precautionary statements	
Prevention	: ₩ear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	: IF 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 1-methoxy-2-propanol 4-methylpentan-2-one 2-methylpropan-1-ol
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requiren	<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	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
		Engl	ish (GB)	Qatar	2/15

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SIGMAGUARD 730 HARDENER SECTION 3: Composition/information on ingredients						
-					141 101	
x ýlene	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]	
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]	
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥5.0 - ≤10	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l EUH066: C ≥ 20%	[1] [2]	
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]	
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]	
2-methoxypropanol	EC: 216-455-5 CAS: 1589-47-5 Index: 603-106-00-0	<0.30	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 1B, H360D STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	-	[1]	

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>

1 Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

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SECTION 4: First ai	d measures		
4.1 Description of first aid r	measures		
Eye contact		nove any contact lenses. Immediately flush e s, keeping eyelids open. Seek immediate me	
Inhalation		air. Keep person warm and at rest. If not brea iratory arrest occurs, provide artificial respira	
Skin contact		nated clothing and shoes. Wash skin thoroug skin cleanser. Do NOT use solvents or thin	
Ingestion		medical advice immediately and show the or at rest. Do NOT induce vomiting.	container or label. Keep
Protection of first-aiders	suspected that fun self-contained brea	taken involving any personal risk or without nes are still present, the rescuer should wea athing apparatus. It may be dangerous to th uth resuscitation. Wash contaminated clothi , or wear gloves.	r an appropriate mask or e person providing aid to

and effects, both acute and delayed

Eye contact	: Causes serious eye damage.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: 🗭 an cause central nervous system (CNS) depression.
<u>Over-exposure signs/sy</u>	<u>mptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
.3 Indication of any imm	ediate 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.

Conforms to Regulation (EC	No. 1907/2006 (REACH), Annex II
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SIGMAGUARD 730 HARDEN	ER
SECTION 5: Firefigh	ting 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	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. Ir a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathir apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to Europea standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

erri ereeriai preesaaierie, pre	Source 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).
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.

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SIGMAGUARD 730	SIGMAGUARD 730 HARDENER					
SECTION 6: A	Accidental release me	easures				
6.4 Reference to of sections		or emergency contact information. or information on appropriate personal protectiv	/e 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	: Fut on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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	: 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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II					
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SECTION 8: Exposure controls/personal protection

Product/ingredient	name	Exposure limit values
₩ylene		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.
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.
4-methylpentan-2-one		EU OEL (Europe, 10/2019). STEL: 208 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 83 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
2-methylpropan-1-ol		ACGIH TLV (United States, 1/2021). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
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.
Recommended monitoring procedures	atmosphere or b the ventilation or protective equipr following: Europ assessment of e values and meas atmospheres - G exposure to cher atmospheres - G measurement of	ntains ingredients with exposure limits, personal, workplace iological monitoring may be required to determine the effectiveness of other control measures and/or the necessity to use respiratory ment. Reference should be made to monitoring standards, such as the ean Standard EN 689 (Workplace atmospheres - Guidance for the xposure by inhalation to chemical agents for comparison with limit surement strategy) European Standard EN 14042 (Workplace suide for the application and use of procedures for the assessment of mical and biological agents) European Standard EN 482 (Workplace ceneral requirements for the performance of procedures for the chemical agents) Reference to national guidance documents for determination of hazardous substances will also be required.
8.2 Exposure controls		
Appropriate engineering controls	other engineering recommended of	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof ment.
Individual protection measure	<u>s</u>	
Hygiene measures	eating, smoking Appropriate tech Wash contamina	earms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. niques should be used to remove potentially contaminated clothing. ated clothing before reusing. Ensure that eyewash stations and safety se to the workstation location.
Skin protection	: Chemical splash	goggles and face shield.
Hand protection	:	

Conforms to Regulation	(EC) No. 1907/2006 (R	EACH), Annex II	
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SECTION 8: Expo	osure controls/p	ersonal protection	
	worn at all time necessary. Co during use tha noted that the glove manufac protection time frequently repo (breakthrough When only brid (breakthrough The user must product is the as included in	stant, impervious gloves complying with an app es when handling chemical products if a risk as onsidering the parameters specified by the glov t the gloves are still retaining their protective pro- time to breakthrough for any glove material ma cturers. In the case of mixtures, consisting of se of the gloves cannot be accurately estimated. eated contact may occur, a glove with a protection time greater than 480 minutes according to EN ef contact is expected, a glove with a protection time greater than 30 minutes according to EN t check that the final choice of type of glove sele most appropriate and takes into account the pa the user's risk assessment.	sessment indicates this is e manufacturer, check operties. It should be y be different for different everal substances, the When prolonged or ion class of 6 1 374) is recommended. class of 2 or higher 374) is recommended. ected for handling this rticular conditions of use,
Gloves	: For prolonged	or repeated handling, use the following type of	gloves:
	May be used: Recommende	nitrile rubber d: polyvinyl alcohol (PVA), butyl rubber, Viton®	
Body protection	performed and handling this p static protectiv should include	ective equipment for the body should be selected the risks involved and should be approved by product. When there is a risk of ignition from state re clothing. For the greatest protection from state anti-static overalls, boots and gloves. Refer to per information on material and design requirement	a specialist before atic electricity, wear anti- tic discharges, clothing European Standard EN
Other skin protection	based on the t	otwear and any additional skin protection meas ask being performed and the risks involved and re handling this product.	
Respiratory protection	hazards of the are exposed to certified respir	ection must be based on known or anticipated e product and the safe working limits of the select concentrations above the exposure limit, they ators. Use a properly fitted, air-purifying or air- ved standard if a risk assessment indicates this	cted respirator. If workers must use appropriate, fed respirator complying
Environmental exposicon controls	they comply w cases, fume s	n ventilation or work process equipment should ith the requirements of environmental protection crubbers, filters or engineering modifications to ary to reduce emissions to acceptable levels.	n legislation. In some

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

	English (CP)	Octor 9/15
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.48% Upp	er: 13.74% (1-methoxy-2-propanol)
Flammability (solid, gas)	: liquid	
Initial boiling point and boiling range	: >37.78°C	
Melting point/freezing point	 May start to solidify at the following tempera on data for the following ingredient: 4-meth -93.75°C (-136.7°F) 	
Odour threshold	: Not available.	
Odour	: Amine-like.	
Colour	: Colourless.	
Physical state	: Liquid.	
<u>Appearance</u>		

English (GB)

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SECTION 9: Physica		chomical	ortios					
Auto-ignition temperature			Jerties					
Decomposition temperature		290°C (554°F) Stable under recomm	mended st	orane a	und handling co	onditions	(see Sec	tion 7)
pH		insoluble in water.	nenueu si	lorage a		JIGILIONS	(366 060	uon <i>r j</i> .
Viscosity		Kinematic (40°C): >2	21 mm²/s					
Viscosity		60 - 100 s (ISO 6mn						
Solubility(ies))					
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octa	anol/ :	Not applicable.						
Vapour pressure	:		Vapou	ur Press	sure at 20°C	Vapo	our press	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		4-methylpentan-2-one	15.75	2.1				
Evaporation rate		Highest known value 0.96compared with b			ntan-2-one) V	Veighted	average:	
Relative density		0.96compared with b 0.98	outyl aceta	ate	·	-	-	
Relative density Vapour density	:	0.96compared with b 0.98 Highest known value	outyl aceta e: 3.7 (Air	ate = 1) (x	ylene). Weigh	-	-	(Air = 1)
Relative density Vapour density Explosive properties	:	0.96compared with b 0.98 Highest known value Product does not pre	outyl aceta e: 3.7 (Air esent an e	= 1) (x xplosion	ylene). Weigh n hazard.	-	-	(Air = 1)
Relative density Vapour density Explosive properties Oxidising properties	:	0.96compared with b 0.98 Highest known value	outyl aceta e: 3.7 (Air esent an e	= 1) (x xplosion	ylene). Weigh n hazard.	-	-	(Air = 1)
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics	:	0.96compared with b 0.98 Highest known value Product does not pre Product does not pre	outyl aceta e: 3.7 (Air esent an e	= 1) (x xplosion	ylene). Weigh n hazard.	-	-	(Air = 1)
Relative density Vapour density Explosive properties	:	0.96compared with b 0.98 Highest known value Product does not pre	outyl aceta e: 3.7 (Air esent an e	= 1) (x xplosion	ylene). Weigh n hazard.	-	-	(Air = 1)
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics	:	0.96compared with b 0.98 Highest known value Product does not pre Product does not pre	outyl aceta e: 3.7 (Air esent an e	= 1) (x xplosion	ylene). Weigh n hazard.	-	-	(Air = 1)
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size	:	0.96compared with b 0.98 Highest known value Product does not pre Product does not pre	outyl aceta e: 3.7 (Air esent an e	= 1) (x xplosion	ylene). Weigh n hazard.	-	-	(Air = 1)
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size 0.2 Other information No additional information.	:	0.96compared with b 0.98 Highest known value Product does not pre Product does not pre Not applicable.	outyl aceta e: 3.7 (Air esent an e	= 1) (x xplosion	ylene). Weigh n hazard.	-	-	(Air = 1)
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size	ty and	0.96compared with b 0.98 Highest known value Product does not pre Product does not pre Not applicable.	outyl aceta e: 3.7 (Air esent an e esent an o	= 1) (x xplosior xidizing	ylene). Weigh n hazard. hazard.	ted avera	age: 3.28	
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size 9.2 Other information No additional information. SECTION 10: Stabilit	: : : ty and : No	0.96compared with b 0.98 Highest known value Product does not pre Product does not pre Not applicable.	outyl aceta e: 3.7 (Air esent an e esent an o	= 1) (x xplosior xidizing	ylene). Weigh n hazard. hazard.	ted avera	age: 3.28	
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size 0.2 Other information No additional information. SECTION 10: Stabilit 10.1 Reactivity	: : : : : : No : : : :	0.96compared with b 0.98 Highest known value Product does not pre Product does not pre Not applicable. d reactivity specific test data relate e product is stable.	e: 3.7 (Air esent an e esent an o	ete (x xplosior xidizing	ylene). Weigh hazard. hazard.	ted avera	age: 3.28	redients.
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size 0.2 Other information No additional information. SECTION 10: Stabilit	: : : : : : No : : : :	0.96compared with b 0.98 Highest known value Product does not pre Product does not pre Not applicable.	e: 3.7 (Air esent an e esent an o	ete (x xplosior xidizing	ylene). Weigh hazard. hazard.	ted avera	age: 3.28	redients.
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size 0.2 Other information No additional information. SECTION 10: Stabilit 10.1 Reactivity 10.2 Chemical stability	: ty and : No : The : Un : Wr	0.96compared with b 0.98 Highest known value Product does not pre Product does not pre Not applicable. d reactivity specific test data relate e product is stable. der normal conditions	e: 3.7 (Air esent an e esent an o ated to rea	e and u	ylene). Weigh hazard. hazard. vailable for this se, hazardous	s product	age: 3.28	redients.
Relative density Vapour density Explosive properties Oxidising properties Particle characteristics Median particle size 0.2 Other information No additional information. SECTION 10: Stabilit 10.1 Reactivity 10.2 Chemical stability 10.3 Possibility of hazardous reactions	: ty and : No : The : Un : Wr	0.96compared with b 0.98 Highest known value Product does not pre Product does not pre Not applicable. d reactivity specific test data relate e product is stable. der normal conditions	e: 3.7 (Air esent an e esent an o ated to rea	e and u	ylene). Weigh hazard. hazard. vailable for this se, hazardous	s product	age: 3.28	redients.

carbon oxides

10.6 Hazardous

decomposition products

: Depending on conditions, decomposition products may include the following materials:

Conforms to Regulation (onforms to Regulation (EC) No. 1907/2006 (REACH), Annex II					
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
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	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2-methoxypropanol	LC50 Inhalation Vapour	Rat	15000 ppm	4 hours
2	LD50 Dermal	Rabbit	5660 mg/kg	-
	LD50 Oral	Rat	5.3 g/kg	-

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

Irritation/Corrosion

Product/ingredien	it name	Result	Species	Score	Exposure	Observation
x ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary				.		1
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 toxi	iaitu (ainala ava					

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-methoxypropanol	Category 3	-	Respiratory tract irritation

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Specific target organ toxici	ity (repeated exposure)				
Product/ing	gredient name	Categ	jory	Route of exposure	Target organs
ethylbenzene		Catego	ory 2	-	hearing organs
Aspiration hazard					
Product/	/ingredient name			I	Result
xylene ethylbenzene				IRATION HAZARD	
Information on likely routes of exposure	: Not available.				
Potential acute health effect	<u>cts</u>				
Inhalation					cause drowsiness or
Ingestion	: 🗹 an cause central nerv				
Skin contact	: Causes skin irritation. I	Defatting to t	he sk	in.	
Eye contact	: Causes serious eye dar	mage.			
Symptoms related to the pl	hysical, chemical and toxic	cological ch	aract	teristics	
	coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness				
Ingestion	: Adverse symptoms may stomach pains	y include the	follo	wing:	
Skin contact	: Adverse symptoms may pain or irritation redness dryness cracking blistering may occur	y include the	follo	wing:	
Eye contact	: Adverse symptoms may pain watering redness	y include the	follo	wing:	
Delayed and immediate effe	ects as well as chronic effe	ects from sl	hort a	and long-term exp	<u>osure</u>
<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 eff Not available.	fects				
Conclusion/Summary	: Not available.				
Conclusion/Summary					

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General	: Prolonged or repeated conta dermatitis.	act can defat the skin and lead to i	rritation, cracking and/or	
Carcinogenicity	: Suspected of causing cance exposure.	er. Risk of cancer depends on dur	ation and level of	
Mutagenicity	: No known significant effects	or critical hazards.		

managementy	
Reproductive toxicity	: No known significant effects or critical hazards.

Other information : Not available.

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
✓-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l	Fish	96 hours
	Fresh water		
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum		
-methylpentan-2-one ethylbenzene	OECD 301F -	83 % - Readily - 28 day 79 % - Readily - 10 day		-		
Conclusion/Summary : There are no data available on the mixture itself.						
Product/ingredient name		Aquatic half-life	Photolysis	Biodegradability		
ylene 4-methylpentan-2-one ethylbenzene			-	Readily Readily Readily		

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	low
1-methoxy-2-propanol	<1	-	low
4-methylpentan-2-one	1.9	-	low
2-methylpropan-1-ol	1	-	low
ethylbenzene	3.6	79.43	low
2-methoxypropanol	-0.49	-	low

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SECTION 12: Ecological information

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

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

Code

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 waste paint and varnish containing organic solvents or other hazardous substances		
08 01 11*			
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
On a sigl and souther s	. This we show is	

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

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SECTION 14: Transport information

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

Additional information

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

user

14.6 Special precautions 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 in bulk : Not applicable. according to IMO instruments

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

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SECTION 16: Other	r information			
Indicates information that	at has changed from previously	issued version.		
Abbreviations and acronyms	1272/2008] DNEL = Derived No Effe	belling and Packaging Regulation [Re ect Level specific Hazard statement ffect Concentration	gulation (EC) No.	
Full text of abbreviated H statements	 H225 Highly flamma H226 Flammable liq H304 May be fatal if H312 Harmful in con H315 Causes skin ir H318 Causes seriou H319 Causes seriou H322 Harmful if inha H335 May cause res H336 May cause dro H351 Suspected of of H360D May damage t H373 May cause dat H412 Harmful to aqu 	ble liquid and vapour. uid and vapour. swallowed and enters airways. ntact with skin. ritation. is eye damage. is eye irritation.		
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 1B Skin Irrit. 2 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Category CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRI SERIOUS EYE DAMAGE/EYE IRI FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category REPRODUCTIVE TOXICITY - Ca SKIN CORROSION/IRRITATION SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	y 1 RITATION - Category 1 RITATION - Category 2 y 2 y 3 tegory 1B - Category 2 IICITY - REPEATED	
<u>History</u> Date of issue/ Date of revision	: 26 September 2022	- 3		
Date of previous issue	: 27 August 2021			
Prepared by	: EHS			
Version	: 5			
<u>Disclaimer</u>				

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