# **SAFETY DATA SHEET**

United Arab Emirates

Date of issue/Date of revision

undertaking

: 4 January 2024

Version

: 3.01

-	
1.1 Product identifier	
Product name	: SIGMA NAVAMAR
Product code	: 00176840
Other means of identification	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

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

Sigma Paint Saudi Arabia Ltd. PO Box 7509 Dammam 31472 Saudi Arabia 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. 3, H226 Carc. 1B, H350 Repr. 1B, H360D STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

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SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapour.</li> <li>May cause drowsiness or dizziness.</li> <li>May cause cancer.</li> <li>May damage the unborn child.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>Harmful to aquatic life with long lasting effects.</li> </ul>
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. Do no breathe vapour.
Response	: IF exposed or concerned: Get medical advice or attention.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P260, P308 + P313, P403 + P233, P501</li> </ul>
Hazardous ingredients	<ul> <li>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</li> <li>2-ethylhexanoic acid, zirconium salt butanone oxime</li> </ul>
Supplemental label elements	<ul> <li>Repeated exposure may cause skin dryness or cracking. Contains butanone oxime. May produce an allergic reaction.</li> <li>Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.</li> </ul>
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 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 vPvI
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

: Mixture

	1	r	1	1	
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	EUH066: C ≥ 20%	[1]
Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)	REACH #: 01-2119458049-33 EC: 919-446-0 CAS: 64742-82-1	≥5.0 - <10	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	EUH066: C ≥ 20%	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
2-ethylhexanoic acid, zirconium salt	REACH #: 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9 Index: 607-230-00-6	≤1.0	Repr. 1B, H360D	-	[1] [2]
butanone oxime	REACH #: 01-2119539477-28 EC: 202-496-6 CAS: 96-29-7 Index: 616-014-00-0	<1.0	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350 STOT SE 1, H370 (upper respiratory tract) STOT SE 3, H336 STOT RE 2, H373 (blood system)	ATE [Oral] = 100 mg/ kg ATE [Dermal] = 1100 mg/kg	[1] [2]
2-methylpentane-2,4-diol	EC: 203-489-0 CAS: 107-41-5	≤0.30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d See Section 16 for the full text of the H statements declared above.	-	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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**SECTION 3: Composition/information on ingredients** 

This mixture contains  $\geq$  1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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 me	easures
Eye contact	: 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	: No known significant effects or critical hazards.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	<u>ms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

#### 4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid	l measures
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to Europea standard EN 469 will provide a basic level of protection for chemical incidents.
SECTION C. Assidar	ntal release measures

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".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	со	ntainment 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.

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# **SECTION 6: Accidental release measures**

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 breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.
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.

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# **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
Manium dioxide	<ul> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 10 mg/m<sup>3</sup> 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 10 mg/m<sup>3</sup> 8 hours.</li> <li>ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m<sup>3</sup> 8 hours. Form: respirable fraction, finescale</li> </ul>
Kaolin	particles <b>Cabinet Decree (12) of 2006 Regarding Regulation Concerning</b> <b>Protection of Air from Pollution (United Arab Emirates, 5/2006).</b> STEL: 75 ppm 15 minutes. TWA: 238 mg/m <sup>3</sup> 8 hours.
	STEL: 356 mg/m <sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).
	TWA: 2 ppm 8 hours. Form: measured as respirable fraction of the aerosol ACGIH TLV (United States, 1/2023). Notes: 1996 Adoption Refers to Appendix A Carcinogens. Respirable fraction; see Appendix C, paragraph C. TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
1-methoxy-2-propanol	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 369 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. STEL: 553 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	<ul> <li>Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> <li>STEL: 150 ppm 15 minutes.</li> <li>TWA: 369 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 553 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 100 ppm 8 hours.</li> <li>ACGIH TLV (United States, 1/2023).</li> <li>STEL: 369 mg/m<sup>3</sup> 15 minutes.</li> <li>STEL: 100 ppm 15 minutes.</li> <li>TWA: 184 mg/m<sup>3</sup> 8 hours.</li> </ul>
nonane	TWA: 50 ppm 8 hours. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [nonane, all isomers] TWA: 1050 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 1050 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. ACGIH TLV (United States, 1/2023). TWA: 200 ppm 8 hours.
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	TWA: 1050 mg/m³ 8 hours.
Recommended monitoring procedures	: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
3.2 Exposure controls	
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 any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	<u>ires</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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection Skin protection	: Chemical splash goggles.
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	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: neoprene, butyl rubber, nitrile 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. 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.

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# **SECTION 9: Physical and chemical properties**

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

<u>Appearance</u>								
Physical state	:	Liquid.						
Colour	:	Various						
Odour	:	Aromatic.						
Odour threshold	1	Not available.						
Melting point/freezing point	:	May start to solidify a data for the following						
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1.48%	Upper: 13.7	74% (1-m	ethoxy-2-p	ropanol)
Flash point	:	Closed cup: 40°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		Hydrocarbons, C9-C12, r isoalkanes, cyclics, arom		>230	>44(	3		
Decomposition temperature	:	Stable under recomn	nended st	orage a	nd handling	conditio	ns (see Sec	tion 7).
юН		Not applicable. insolu		-	0		(	,
/iscosity	÷.,	Kinematic (room tem			<u>.</u>			
		Kinematic (40°C): >2		: >400 n	nm²/s			
-	:		21 mm²/s´	: >400 n	nm²/s			
/iscosity	:	Kinematic (40°C): >2	21 mm²/s´	: >400 n	nm²/s			
/iscosity Solubility(ies)	:	Kinematic (40°C): >2	21 mm²/s´	: >400 n	nm²/s			
Viscosity	:	Kinematic (40°C): >2 60 - 100 s (ISO 6mm	21 mm²/s´	: >400 n	nm <sup>-</sup> /s			
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol	· : :	Kinematic (40°C): >2 60 - 100 s (ISO 6mm Result Not soluble	21 mm²/s´	: >400 n	nm <sup>-</sup> /s			
Viscosity Solubility(ies) Media	- : : // : :	Kinematic (40°C): >2 60 - 100 s (ISO 6mm Result Not soluble Not applicable.	21 mm²/s´ ı)		nm <sup>2</sup> /s	) Va	pour pres	sure at 50°(
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water		Kinematic (40°C): >2 60 - 100 s (ISO 6mm Result Not soluble	21 mm²/s´ ı)	ır Press		) Va mm Hg	ipour pres kPa	sure at 50°( Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water		Kinematic (40°C): >2 60 - 100 s (ISO 6mm Result Not soluble Not applicable.	21 mm²/s ́ ı) <b>Vapoı</b>	ır Press	sure at 20°C	mm		1
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water Vapour pressure	:	Kinematic (40°C): >2 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value	Vapou mm Hg 8.5 : 0.814 (1	<b>Ir Press</b> <b>kPa</b> 1.1 -methox	sure at 20°C Method	mm Hg	kPa	Method
/iscosity Solubility(ies) Media cold water Partition coefficient: n-octanol vater /apour pressure	:	Kinematic (40°C): >2 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol	Vapou mm Hg 8.5 : 0.814 (1	<b>Ir Press</b> <b>kPa</b> 1.1 -methox	sure at 20°C Method	mm Hg	kPa	Method
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water Vapour pressure	:	Kinematic (40°C): >2 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value 0.65compared with b 1.19	Vapou mm Hg 8.5 : 0.814 (1 outyl aceta	<b>kPa</b> 1.1 -methox te	sure at 20°C Method	ol) Weig	kPa hted avera	Method ge:
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Vapour density	:	Kinematic (40°C): >2 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value 0.65compared with b	Vapou mm Hg 8.5 : 0.814 (1 putyl aceta : 4.4 (Air not explos	II.1 I.1 -methox te = 1) (no	sure at 20°C Method xy-2-propan	ol) Weig	kPa hted averag	Method ge: 5 (Air = 1)
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	: : : : : : : : : : : : : : : : : : : :	Kinematic (40°C): >2 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value 0.65compared with b 1.19 Highest known value The product itself is r	Vapou mm Hg 8.5 : 0.814 (1 butyl aceta : 4.4 (Air not explos ir is possi	In Press kPa 1.1 -methox te = 1) (no sive, but ble.	sure at 20°C Method cy-2-propan onane). We the formation	ol) Weig	kPa hted averag	Method ge: 5 (Air = 1)
Viscosity Solubility(ies) Media cold water Partition coefficient: n-octanol water	: : : : : : : : : : : : : : : : : : : :	Kinematic (40°C): >2 60 - 100 s (ISO 6mm Result Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value 0.65compared with b 1.19 Highest known value The product itself is r	Vapou mm Hg 8.5 : 0.814 (1 butyl aceta : 4.4 (Air not explos ir is possi	In Press kPa 1.1 -methox te = 1) (no sive, but ble.	sure at 20°C Method cy-2-propan onane). We the formation	ol) Weig	kPa hted averag	Method ge: 5 (Air = 1)

No additional information.

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# **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
₩ydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	LD50 Oral	Rat	>15000 mg/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	-
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
-	LD50 Oral	Rat	>5 g/kg	-
2-butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
2-methylpentane-2,4-diol	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
		Female	00	
	LD50 Oral	Rat	3700 mg/kg	-
<b>Conclusion/Summary</b> : There are	no data available on the mixture	itself.	+	

Irritation/Corrosion	
<b>Conclusion/Summary</b>	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitisation	
<b>Conclusion/Summary</b>	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.

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# **SECTION 11: Toxicological information**

#### **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 toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Category 3	-	Narcotic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
butanone oxime	Category 1 Category 3	-	upper respiratory tract Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
aromatics (2-25%)	Category 1 Category 2		central nervous system (CNS) blood system

#### **Aspiration hazard**

Product/ingredient name	Result
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely : Not available.	

routes of exposure

Not available.

#### Potential acute health effects

r otential acute ficaliti checto	
Inhalation :	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion :	Can cause central nervous system (CNS) depression.
Skin contact :	Defatting to the skin. May cause skin dryness and irritation.
Eye contact :	No known significant effects or critical hazards.
Symptoms related to the phys	ical, chemical and toxicological characteristics
Inhalation :	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion :	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

Conforms to Regulation 2020/878	n (EC) No. 1907/200	6 (REACH), Annex II, as amended by Commission	n Regulation (EU)
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SECTION 11: To	xicological inf	formation	
Skin contact	: Adverse s	symptoms may include the following:	

Skin contact	:	Adverse symptoms may include the following: irritation
		dryness
		cracking
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
Eye contact	÷	No specific data.
Delayed and immediate effe	cts	s as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate	:	Not available.
effects		
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate	1	Not available.
effects		
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	1	May damage the unborn child.
Other information	:	Not available.
Prolonged or repeated contac	t m	av dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled

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. 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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC50 >1000 mg/l	Algae	72 hours
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Chronic NOEC 0.097 mg/l Fresh water	Daphnia	21 days
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours
2-methylpentane-2,4-diol	EC50 >429 mg/l	Algae - Raphidocelis subcapitata	72 hours
	EC50 5.41 mg/l	Daphnia - <i>Daphnia</i>	48 hours
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## **SECTION 12: Ecological information**

LC50 8.51 mg/l	magna Fish - Gambusia affinis	96 hours
NOEC 429 mg/l	Algae - Raphidocelis subcapitata	72 hours

Conclusion/Summary

: There are no data available on the mixture itself.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, <2% aromatics	-	80 % - Readily - 28 days	-	-
Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)	OECD 301 F 301F Ready Biodegradability - Manometric Respirometry Test	75 % - Readily - 28 days	-	-
2-methylpentane-2,4-diol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	81 % - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	-	Readily
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	-	Readily
2-methylpentane-2,4-diol	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
₩ydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	10 to 2500	High
1-methoxy-2-propanol	<1	-	Low
butanone oxime	0.63	5.01	Low
2-methylpentane-2,4-diol	0.58	-	Low

#### **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.

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## **SECTION 12: Ecological information**

#### **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 catalog	<u>jue (EWC)</u>	
Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
ackaging		
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	<ul> <li>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,</li> </ul>	

#### drains and sewers.

## **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	111	111	III
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

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SECTION 1	4: Transpor	rt information
Additional infor		
ADR/RID	2.2.3.1.5.1.	viscous liquid is not subject to regulation in packagings up to 450 L according to
Tunnel code	: (D/E)	
		viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
ΙΑΤΑ	: None identif	ied.
14.6 Special pre user	ecautions for :	<b>Transport within user's premises:</b> 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 instruments		Not applicable.
	5: Regulato	ory information
SECTION 1	•	ory information mental regulations/legislation specific for the substance or mixture
SECTION 1 15.1 Safety, hea	•	mental regulations/legislation specific for the substance or mixture
SECTION 1 15.1 Safety, hea EU Regulation	Ith and environ (EC) No. 1907/2	mental regulations/legislation specific for the substance or mixture
SECTION 1 15.1 Safety, hea EU Regulation	Ith and environ (EC) No. 1907/2	mental regulations/legislation specific for the substance or mixture 2006 (REACH)
SECTION 1 15.1 Safety, hea EU Regulation Annex XIV - L Annex XIV	Ith and environ (EC) No. 1907/2	mental regulations/legislation specific for the substance or mixture 2006 (REACH) es subject to authorisation
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SECTION 1 15.1 Safety, hea EU Regulation Annex XIV - L Annex XIV None of the c Substances None of the c Annex XVII - I on the manuf placing on th and use of ce dangerous su	Ith and environ (EC) No. 1907/2 ist of substance components are line of very high correspondents are line components are line Restrictions : facture, e market ertain ubstances, articles	mental regulations/legislation specific for the substance or mixture 2006 (REACH) es subject to authorisation isted. ncern isted. Restricted to professional users.
SECTION 1 15.1 Safety, hea EU Regulation Annex XIV - L Annex XIV None of the c Substances None of the c Annex XVII - I on the manuf placing on th and use of ce dangerous su mixtures and Other national	Ith and environ (EC) No. 1907/2 ist of substance components are li of very high cor components are li Restrictions : facture, e market ertain ubstances, articles and internation	mental regulations/legislation specific for the substance or mixture 2006 (REACH) es subject to authorisation isted. ncern isted. Restricted to professional users.
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Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>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</li> </ul>
Full tout of alphanulated II	

Full text of abbreviated H statements

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SECTION 16: Other i	nformation	
	: H226 Flammable liqu	id and vapour.
	H301 Toxic if swallow	•
	H304 May be fatal if s	swallowed and enters airways.
	H312 Harmful in cont	act with skin.
	H315 Causes skin irri	
		allergic skin reaction.
	H318 Causes serious	
	H319 Causes serious	
		wsiness or dizziness.
	H350 May cause can H360D May damage th	
		amaging the unborn child.
	H370 Causes damag	
		e to organs through prolonged or repeated exposure.
	0	nage to organs through prolonged or repeated exposure.
		c life with long lasting effects.
	•	atic life with long lasting effects.
	EUH066 Repeated expo	sure may cause skin dryness or cracking.
Full text of classifications	: Acute Tox. 3	ACUTE TOXICITY - Category 3
[CLP/GHS]	Acute Tox. 4	ACUTE TOXICITY - Category 4
	Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category
	Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category
	Asp. Tox. 1	ASPIRATION HAZARD - Category 1
	Carc. 1B	CARCINOGENICITY - Category 1B
	Eye Dam. 1 Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
	Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
	Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
	Repr. 2	REPRODUCTIVE TOXICITY - Category 2
	Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
	Skin Sens. 1	SKIN SENSITISATION - Category 1
	STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
		EXPOSURE - Category 1
	STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
		EXPOSURE - Category 2
	STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY - SINGLE
	STOT SE 3	EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE
	3101 3E 3	EXPOSURE - Category 3
History		
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