

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# **SAFETY DATA SHEET**

03-49 HARDENER

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

1.1	Prod	uct	ider	ntifier
р,	oduc	+	mo	

Product name	:	03-49 HARDENER
SDS code	:	21049002D

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses				
Paint. Professional us	se Industrial use			
	Uses advised against			
All other uses				
Product use	: Filler for exterior use			

### 1.3 Details of the supplier of the safety data sheet

MAPAERO SAS 10, Avenue de la Rijole CS30098 09103 PAMIERS Cedex France e-mail address of person : PSRA PAMIERS@akzonobel.com

1.4 Emergency telephone number

responsible for this SDS

	National advisory	body/Poison Center
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Telephone number	: +39 02 6610 1029
<u>Supplier</u>	
Telephone number	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30
Hours of operation	:

## **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]

Skin Irrit. 2, H315 Eye Dam. 1, H318

Skin Sens. 1, H317

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**

2.2 Label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Avoid breathing vapor. Wash hands thoroughly after handling.
Response	:	Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	2,4,6-tris(dimethylaminomethyl)phenol Amines, polyethylenepoly-, triethylenetetramine fraction
Supplemental label elements	:	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	ts
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 according to Regulation (EC) No. 1907/2006, Annex XIII	:	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	:	None known.
SECTION 2. Company	:4:	on/information on ingredients

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

3.2 Mixtures

: Mixture



Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
penzyl alcohol	EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332	[1]
butan-2-ol	REACH #: 01-2119475146-36 EC: 201-158-5 CAS: 78-92-2	≤10	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 STOT SE 3, H336	[1]
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≤3.5	Acute Tox. 4, H302 Skin Corr. 1C, H314	[1]
Amines, polyethylenepoly-, triethylenetetramine fraction	EC: 292-588-2 CAS: 90640-67-8	≤1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	<1	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119488216-32	<1	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤0.3	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 See Section 16 for	[1] [2]
			the full text of the H statements declared above.	

## **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.

<u>Туре</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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



### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures : Get medical attention immediately. Call a poison center or physician. Immediately Eve contact flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Inhalation Get medical attention immediately. Call a poison center or physician. Remove : victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Skin contact : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. : Get medical attention immediately. Call a poison center or physician. Wash out Ingestion mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Amines, polyethylenepoly-, triethylenetetramine fraction. May produce an allergic reaction.

### Over-exposure signs/symptoms

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## SECTION 4: First aid measures

SECTION 4: First aid	l measures
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immedi	ate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
<b>SECTION 5: Firefigh</b>	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions	· Promptly isolate the scene by removing all persons from the vicinity of the incident if

Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)	

conforming to European standard EN 469 will provide a basic level of protection for

## **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

chemical incidents.

For non-emergency personnel	Evacuate surrounding area entering. Do not touch or mist. Provide adequate ve	volving any personal risk or withou as. Keep unnecessary and unprote walk through spilled material. Do n entilation. Wear appropriate respira priate personal protective equipmen	ected personnel from not breathe vapor or ator when ventilation is
For emergency responders		quired to deal with the spillage, tak n suitable and unsuitable materials. nergency personnel".	
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### **SECTION 6: Accidental release measures**

6.2 Environmental precautions	: Avoid dispersal of spilled 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 materials for	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach 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 spilled 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 in accordance with local regulations. 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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	



## **SECTION 8: Exposure controls/personal protection**

required.

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values		
P-methoxy-1-methylethyl acetate Reaction mass of ethylbenzene and xylene n-butyl acetate	Ministry of Labour and Social Policy (Italy, 10/2013). Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 275 mg/m <sup>3</sup> 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 550 mg/m <sup>3</sup> 15 minutes. Ministry of Labour and Social Policy (Italy, 10/2013). Absorbed through skin. Short Term: 442 mg/m <sup>3</sup> 15 minutes. Short Term: 100 ppm 15 minutes. 8 hours: 221 mg/m <sup>3</sup> 8 hours. 8 hours: 50 ppm 8 hours. EU OEL (Europe, 10/2019). Notes: list of indicative occupational exposure limit values		
procedures atmosphere of of the ventilat protective equilation the following: the assessme limit values a atmospheres of exposure t (Workplace a for the measure	STEL: 150 ppm 15 minutes. STEL: 723 mg/m <sup>3</sup> 15 minutes. TWA: 241 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. t contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectiveness tion or other control measures and/or the necessity to use respiratory uipment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for ent of exposure by inhalation to chemical agents for comparison with nd measurement strategy) European Standard EN 14042 (Workplace - Guide for the application and use of procedures for the assessment o chemical and biological agents) European Standard EN 482 atmospheres - General requirements for the performance of procedures urement of chemical agents) Reference to national guidance or methods for the determination of hazardous substances will also be		

### **DNELs/DMELs**

Product/ingredient name	е Туре	Exposure	Value	Population	Effects
penzyl alcohol	DNEL	Long term Oral	4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	5.4 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	8 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term Oral	20 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	20 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	22 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	27 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Short term Dermal	40 mg/kg	Workers	Systemic
			bw/day		
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	DNEL	Short term	110 mg/m <sup>3</sup>	Workers	Systemic
butan-2-ol	DNEL	Inhalation Long term Oral	15 mg/kg	General	Systemic
50001-2-01	DINCE	Long term oral	bw/day	population	Oysternie
	DNEL	Long term	52 mg/m <sup>3</sup>	General	Systemic
		Inhalation	oz mg/m	population	Cysternio
	DNEL	Long term Dermal	203 mg/kg	General	Systemic
	0	Long toni Donna	bw/day	population	eyetenne
	DNEL	Long term	212 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Inhalation Long term Dermal	405 mg/kg	Workers	Systemic
Amines, polyethylenepoly-,	DNEL	Long term Dermal	bw/day 0.25 mg/	General	Systemic
triethylenetetramine fraction			kg bw/day	population	
	DNEL	Long term Inhalation	0.29 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Oral	0.41 mg/	General	Systemic
			kg bw/day	population	- )
	DNEL	Long term Dermal	0.57 mg/	Workers	Systemic
		Long torm	kg bw/day	Markara	Sustamia
	DNEL	Long term Inhalation	1 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	20 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	1600 mg/	General	Systemic
		Inhalation	m <sup>3</sup>	population	0
	DNEL	Short term	5380 mg/	Workers	Systemic
Reaction mass of ethylbenzene and	DNEL	Inhalation Long term Oral	m³ 1.6 mg/kg	General	Systemic
xylene			bw/day	population	
	DNEL	Long term	14.8 mg/m <sup>3</sup>	General	Systemic
		Inhalation	77 1 3	population	0
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	108 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 180 mg/kg	population Workers	Systemic
		Ob and tarma	bw/day		
	DNEL	Short term	289 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Short term	289 mg/m <sup>3</sup>	Workers	Systemic
n hutul acctat-		Inhalation	0.4	Concert	Ourstans's
n-butyl acetate	DNEL	Long term Oral	3.4 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 3.4 mg/kg	population General	Systemic
	DNEL	Long term Dermal	bw/day 7 mg/kg	population Workers	Systemic
			bw/day		
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
	DNEL	Long term	102.34 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Long term Inhalation	480 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term	859.7 mg/	General	Local
		Inhalation	$m^{3}$	population	Sustamia
	DNEL	Short term	859.7 mg/ m³	General population	Systemic
		Inhalation	m-	population	
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SECTION 8: Exposure controls/personal protection					
DNEL	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	Local	
DNEL	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	Systemic	

### **PNECs**

No PNECs available.

8.2 Exposure controls				
Appropriate engineering controls	:	enclosures, local exhaust	e dust, fumes, gas, vapor or mist, us ventilation or other engineering con aminants below any recommended	trols to keep worker
Individual protection meas	ures			
Hygiene measures		before eating, smoking an Appropriate techniques sl Contaminated work clothic contaminated clothing be showers are close to the		of the working period. contaminated clothing. workplace. Wash stations and safety
Eye/face protection	:	assessment indicates this gases or dusts. If contac unless the assessment in	g with an approved standard should is necessary to avoid exposure to li is possible, the following protection dicates a higher degree of protection d. If inhalation hazards exist, a full-fa	iquid splashes, mists, should be worn, n: chemical splash
Skin protection				
Hand protection		be worn at all times when this is necessary. Consid check during use that the should be noted that the t different for different glove several substances, the p estimated. When prolonged or freque protection class of 6 (breat recommended. Recomm When only brief contact is (breakthrough time >30 m Recommended gloves: N Gloves should be replace material.	vious gloves complying with an appr handling chemical products if a risk ering the parameters specified by th gloves are still retaining their protec ime to breakthrough for any glove me e manufacturers. In the case of mixi- rotection time of the gloves cannot b ently repeated contact may occur, a akthrough time >480 minutes accord ended gloves: Viton ® or Nitrile, thic expected, a glove with protection ch inutes according to EN374) is recor- itrile, thickness $\geq 0.12$ mm. d regularly and if there is any sign of tiveness of the glove may be reduce or maintenance.	assessment indicates e glove manufacturer, tive properties. It laterial may be tures, consisting of be accurately glove with a ing to EN374) is kness ≥ 0.38 mm. lass of 2 or higher nmended. f damage to the glove
			the final choice of type of glove sele priate and takes into account the pa er's risk assessment.	
Body protection	:		ment for the body should be selected risks involved and should be approve uct.	
Other skin protection	:	selected based on the tas	any additional skin protection meas k being performed and the risks invo pefore handling this product.	
Respiratory protection	:	appropriate standard or c	potential for exposure, select a resp ertification. Respirators must be use gram to ensure proper fitting, training	ed according to a
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## **SECTION 8: Exposure controls/personal protection**

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to					
controls	ensure they comply with the requirements of environmental protection legislation.					
	In some cases, fume scrubbers, filters or engineering modifications to the proc					
	equipment will be necessary to reduce emissions to acceptable levels.					

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

9.1 Information on basic physical	and chemical properties
<u>Appearance</u>	
Physical state	Liquid.
Color	Colorless.
Odor	Characteristic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Closed cup: 100°C
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.21 (Air = 1)
Density	2.029 g/cm <sup>3</sup>
Solubility(ies)	Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Kinematic (room temperature): 9.86 cm²/s Kinematic (40°C): 2.01 cm²/s

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	: No specific data.		
10.5 Incompatible materials	: No specific data.		
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
-	LD50 Intra-arterial	Rat	441 mg/kg	-
	LD50 Intraperitoneal	Mouse	650 mg/kg	-
	LD50 Intraperitoneal	Rat	400 mg/kg	-
	LD50 Intravenous	Mouse	324 mg/kg	-
	LD50 Intravenous	Rat	53 mg/kg	-
	LD50 Oral	Guinea pig	2500 mg/kg	-
	LD50 Oral	Guinea pig	2500 mg/kg	-
	LD50 Oral	Mouse	1360 mg/kg	-
	LD50 Oral	Mouse	1360 mg/kg	-
	LD50 Oral	Rabbit	1040 mg/kg	-
	LD50 Oral	Rabbit	1040 mg/kg	-
	LD50 Oral	Rat	1.5 mL/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
	LD50 Oral	Rat	1660 mg/kg	-
butan-2-ol	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	48500 mg/m <sup>3</sup>	4 hours
	LD50 Intraperitoneal	Guinea pig	1067 mg/kg	-
	LD50 Intraperitoneal	Mouse	771 mg/kg	-
	LD50 Intraperitoneal	Rabbit	277 mg/kg	-
	LD50 Intraperitoneal	Rat	1193 mg/kg	-
	LD50 Intravenous	Mouse	764 mg/kg	-
	LD50 Intravenous	Rat	138 mg/kg	-
	LD50 Oral	Rabbit	4893 mg/kg	-
	LD50 Oral	Rabbit	4890 mg/kg	-
	LD50 Oral	Rat	2193 mg/kg	-
	LD50 Oral	Rat	2054 mg/kg	-
2,4,6-tris	LD50 Dermal	Rat	1280 mg/kg	-
(dimethylaminomethyl) phenol				
phenol	LD50 Oral	Rat	1200 mg/kg	
	LD50 Oral	Rat	1673 mg/kg	
	LD50 Oral	Rat	2169 mg/kg	-
Reaction mass of	LC50 Inhalation Gas.	Rat	5000 ppm	- 4 hours
ethylbenzene and xylene	LCS0 Initialation Gas.	Nat	5000 ppm	4 110015
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	6 g/m <sup>3</sup>	2 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	_
	LD50 Oral	Rat	10768 mg/kg	_
		i \ai	10700 mg/kg	=

**Conclusion/Summary** 

: Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
▶enzyl alcohol	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
butan-2-ol	Eyes - Severe irritant	Rabbit	-	0.1 MI	-
2,4,6-tris	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
(dimethylaminomethyl)				ug	
phenol					
	Skin - Mild irritant	Rat	-	0.025 MI	-
	Skin - Severe irritant	Rat	-	0.25 MI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 03-49 HARDENER

## **SECTION 11: Toxicological information**

	ological information				
	Skin - Severe irritant	Rabbit	-	mg 24 hours 500 Ul	-
Reaction mass of ethylbenzene and xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
n-butyl acetate	Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	-	100 mg 24 hours 500	-
	Skin - Moderale Imlani	Rabbit	-	mg	-
Conclusion/Summary	: Not available.				I
Sensitization					
<b>Conclusion/Summary</b>	: Not available.				
<b>Mutagenicity</b>					
<b>Conclusion/Summary</b>	: Not available.				
<b>Carcinogenicity</b>					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
<b>Teratogenicity</b>					
<b>Conclusion/Summary</b>	: Not available.				
Specific target organ toxic	city (single exposure)				

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
butan-2-ol	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3 Category 3	-	Narcotic effects Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

# Information on the likely : Not available. routes of exposure

### Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness		
Inhalation	: No specific data.		
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<b>SECTION 11: Toxico</b>	gical information	
Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur	
Ingestion	Adverse symptoms may include the following: stomach pains	
Delayed and immediate effect	and also chronic effects from short and long term exposure	
<u>Short term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
<u>Long term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health eff	<u>s</u>	
Not available.		
Conclusion/Summary	Not available.	
General	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	I
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	No known significant effects or critical hazards.	
Reproductive toxicity	No known significant effects or critical hazards.	
Other information	Not available.	

# SECTION 12: Ecological information

## 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

Product/ingredient name	Result	Species	Exposure
penzyl alcohol	Acute LC50 10000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 460000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 15000 µg/l Marine water	Fish - Menidia beryllina	96 hours
butan-2-ol	Acute EC50 4227 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3670000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
2,4,6-tris (dimethylaminomethyl)	Acute LC50 175 mg/l	Fish - Cyprinus carpio	96 hours
phenol			
Reaction mass of ethylbenzene and xylene	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
2	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours

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### SECTION 12: Ecological information

**Conclusion/Summary** : Not available.

## 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
penzyl alcohol	0.87	-	low
butan-2-ol	0.61	-	low
2,4,6-tris	0.219	-	low
(dimethylaminomethyl)			
phenol			
Amines, polyethylenepoly-,	-2.65	-	low
triethylenetetramine fraction			
2-methoxy-1-methylethyl	1.2	-	low
acetate			
Reaction mass of	3.12	8.1 to 25.9	low
ethylbenzene and xylene			
n-butyl acetate	2.3	-	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 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 minimized 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	: The classification of the product may meet the criteria for a hazardous waste.
Disposal considerations	: Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

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## **SECTION 13: Disposal considerations**

Waste code	Waste designation		
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
Packaging			
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		
Disposal considerations	<ul> <li>Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.</li> </ul>		
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.		

## **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

14.6 Special precautions for	:	Transport within user's premises: always transport in closed containers that are
user		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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

### Annex XIV - List of substances subject to authorization

### Annex XIV

None of the components are listed.

### Substances of very high concern

None of the components are listed.



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SECTION 15: Regula	tory information
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Other EU regulations	
VOC	<ul> <li>The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.</li> </ul>
VOC for Ready-for-Use Mixture	: Not applicable.
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Ozone depleting substanc Not listed.	<u>es (1005/2009/EU)</u>
<u>Prior Informed Consent (P</u>	<u>IC) (649/2012/EU)</u>
Not listed.	
<u>Seveso Directive</u>	
	d under the Seveso Directive.
National regulations	
Industrial use	: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.
D.Lgs. 152/06	: Not determined.
International regulations	
Chemical Weapon Convent Not listed.	ion List Schedules I, II & III Chemicals
Montreal Protocol Not listed.	
Stockholm Convention on F Not listed.	Persistent Organic Pollutants
Rotterdam Convention on F Not listed.	Prior Informed Consent (PIC)
UNECE Aarhus Protocol on Not listed.	POPs and Heavy Metals
Inventory list Europe	: Not determined.
15.2 Chemical Safety Assessment	: No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

✓ 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] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group</li> </ul>
	SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Skin Irrit. 2, H315	Calculation method	
Eye Dam. 1, H318	Calculation method	
Skin Sens. 1, H317	Calculation method	

### Full text of abbreviated H statements

I dli text of abbievlated if st			
H226		Flammable liquid and vapor.	
H302		Harmful if swallowed.	
H304		May be fatal if swallowed and enters airv	ways.
H312		Harmful in contact with skin.	
H314		Causes severe skin burns and eye dama	age.
H315		Causes skin irritation.	
H317		May cause an allergic skin reaction.	
H318		Causes serious eye damage.	
H319		Causes serious eye irritation.	
H332		Harmful if inhaled.	
H335		May cause respiratory irritation.	
H336		May cause drowsiness or dizziness.	
H373		May cause damage to organs through p	rolonged or repeated
11440		exposure.	<b>5</b>
H412		Harmful to aquatic life with long lasting e	
EUH066		Repeated exposure may cause skin dry	ness or cracking.
Full text of classifications [0	CLP/GHS]		
Acute Tox. 4		ACUTE TOXICITY - Category 4	
Aquatic Chronic 3		AQUATIC HAZARD (LONG-TERM) - Ca	ategory 3
Asp. Tox. 1		ASPIRATION HAZARD - Category 1	
Eye Dam. 1		SERIOUS EYE DAMAGE/ EYE IRRITA	TION - Category 1
Eye Irrit. 2		SERIOUS EYE DAMAGE/ EYE IRRITAT	
Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 3	0,1
Skin Corr. 1B		SKIN CORROSION/IRRITATION - Cate	gory 1B
Skin Corr. 1C		SKIN CORROSION/IRRITATION - Cate	gory 1C
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Cate	gory 2
Skin Sens. 1		SKIN SENSITIZATION - Category 1	
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY	(REPEATED
		EXPOSURE) - Category 2	
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY	' (SINGLE EXPOSURE) -
		Category 3	
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revision			
Date of previous issue	: 21 October 202	2	
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## **SECTION 16: Other information**

### Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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