

# SAFETY DATA SHEET

SP10-E HARDENER

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

1.1 Product identifier	
Product name	: SP10-E HARDENER
SDS code	: 12010500D

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

	Identified uses
Paint. Professional use Indu	strial use
	Uses advised against
All other uses	
Product use	: Solvent borne coating for interior and exterior use.
<ul> <li>1.3 Details of the supplier of MAPAERO SAS 10, Avenue de la Rijo 09103 PAMIERS Ce France</li> <li>e-mail address of person responsible for this SDS</li> </ul>	ble CS30098
1.4 Emergency telephone nu	Imber
National advisory body/Poi	son Center
Telephone number	: +33 01 40 05 48 48

<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 s			
Product definition	: Mixture		
<b>Classification according</b>	to Regulation (EC) No. 1272	/2008 [CLP/GHS]	
Flam. Liq. 3, H226			
Skin Irrit. 2, H315			
Eye Irrit. 2, H319			
Skin Sens. 1, H317			
Aquatic Chronic 2, H411			
The product is classified a	s hazardous according to Reg	ulation (EC) 1272/2008 as amended.	
See Section 16 for the full	text of the H statements decla	red above.	
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## **SECTION 2: Hazards identification**

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements Hazard pictograms Signal word : Warning **Hazard statements** : Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. **Precautionary statements** Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling. : Collect spillage. Take off contaminated clothing and wash it before reuse. IF ON Response 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. If eye irritation persists: Get medical advice or attention. Storage : Store in a well-ventilated place. Keep cool. Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. **Hazardous ingredients** : Phenol, polymer with formaldehyde, glycidyl ether Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Supplemental label : Contains epoxy constituents. May produce an allergic reaction. elements **Annex XVII - Restrictions** : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a for PBT or vPvB according vPvB. to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do : None known. not result in classification The mixture may be a skin sensitizer. It may also be a skin irritant and repeated contact may increase this effect.

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Phenol, polymer with formaldehyde, glycidyl ether	CAS: 28064-14-4	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5	≥25 - ≤50	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
cyclohexanone	REACH #: 01-2119453616-35 EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	≥15 - ≤20	Flam. Liq. 3, H226 Acute Tox. 4, H332	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥3 - ≤5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	REACH #: 01-2119513212-58 EC: 219-784-2 CAS: 2530-83-8	≥1 - ≤3	Eye Dam. 1, H318	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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

<u>Type</u>

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.

## SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact	: Immediately 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. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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.

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SECTION 4: First ai	SECTION 4: First aid measures		
Skin contact	: 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.		
Ingestion	: Wash out mouth with water. Remove dentures if any. 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. Get medical attention if adverse health effects persist or are severe. 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. 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.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

Contains Phenol, polymer with formaldehyde, glycidyl ether, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol. May produce an allergic reaction.

#### Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

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<b>SECTION 4: First aid</b>	measures
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
<b>SECTION 5: Firefight</b>	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 fi	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

### 6.1 Personal precautions, protective 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized 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 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### 6.3 Methods and materials for containment and cleaning up

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

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 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 ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store 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. Eliminate all ignition sources. Separate from oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds

#### Danger criteria

5	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne
E2	200 tonne	500 tonne

#### 7.3 Specific end use(s)

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### **SECTION 7: Handling and storage**

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

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

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
øyclohexanone n-butyl acetate	<ul> <li>Ministry of Labor (France, 12/2021). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 81.6 mg/m<sup>3</sup> 15 minutes. Form: Risk for sensitisation STEL: 20 ppm 15 minutes. Form: Risk for sensitisation TWA: 40.8 mg/m<sup>3</sup> 8 hours. Form: Risk for sensitisation TWA: 10 ppm 8 hours. Form: Risk for sensitisation</li> <li>Ministry of Labor (France, 12/2021). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 723 mg/m<sup>3</sup> 15 minutes. Form: Risk for sensitisation STEL: 150 ppm 15 minutes. Form: Risk for sensitisation TWA: 241 mg/m<sup>3</sup> 8 hours. Form: Risk for sensitisation</li> </ul>
procedures atmospher of the vent protective the followin the assess limit values atmospher of exposur (Workplace for the mea	TWA: 50 ppm 8 hours. Form: Risk for sensitisation uct contains ingredients with exposure limits, personal, workplace e or biological monitoring may be required to determine the effectiveness ilation or other control measures and/or the necessity to use respiratory equipment. Reference should be made to monitoring standards, such as ng: European Standard EN 689 (Workplace atmospheres - Guidance for ment of exposure by inhalation to chemical agents for comparison with and measurement strategy) European Standard EN 14042 (Workplace res - Guide for the application and use of procedures for the assessment e to chemical and biological agents) European Standard EN 482 e atmospheres - General requirements for the performance of procedures asurement of chemical agents) Reference to national guidance is for methods for the determination of hazardous substances will also be

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	ו DMEL	Short term Dermal	0.0083 mg/ cm <sup>2</sup>	Workers	Local
_,	DNEL	Long term Oral	6.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	8.7 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	29.39 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	62.5 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	104.15 mg/ kg bw/day	Workers	Systemic
cyclohexanone	DNEL	Short term Dermal	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
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SECTION 8: Exposure controls/personal protection							
	DNEL	Short term Oral	1.5 mg/kg	General	Systemic		
			bw/day	population			
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic		
	DNEL	Short term Dermal	bw/day 4 mg/kg	population Workers	Systemic		
		Chort term Derma	bw/day	Wonters	Gysterino		
	DNEL	Long term Dermal	4 mg/kg	Workers	Systemic		
			bw/day				
	DNEL	Long term	10 mg/m³	General	Systemic		
	DNEL	Inhalation Long term	20 mg/m <sup>3</sup>	population General	Local		
	DINCL	Inhalation	20 mg/m	population	LUCAI		
	DNEL	Short term	20 mg/m <sup>3</sup>	General	Systemic		
		Inhalation	-	population			
	DNEL	Short term	40 mg/m³	General	Local		
		Inhalation	40	population	1 1		
	DNEL	Long term Inhalation	40 mg/m <sup>3</sup>	Workers	Local		
	DNEL	Long term	40 mg/m <sup>3</sup>	Workers	Systemic		
		Inhalation			,		
	DNEL	Short term	80 mg/m <sup>3</sup>	Workers	Local		
		Inhalation					
	DNEL	Short term Inhalation	80 mg/m <sup>3</sup>	Workers	Systemic		
n-butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic		
	5.122		bw/day	population	e y et e me		
	DNEL	Long term Oral	2 mg/kg	General	Systemic		
			bw/day	population			
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic		
	DNEL	Short term Dermal	6 mg/kg	General	Systemic		
	DIVEL	enert term Derma	bw/day	population	Gyotonnio		
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic		
			bw/day				
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic		
	DNEL	Long term	bw/day 12 mg/m³	General	Systemic		
	5.122	Inhalation	12 mg/m	population	e yeterme		
	DNEL	Long term	35.7 mg/m <sup>3</sup>	General	Local		
	DUE	Inhalation	10	population	0		
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic		
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Local		
		Inhalation	_	population			
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Systemic		
	DNEL	Inhalation Long term	300 mg/m <sup>3</sup>	population Workers	Local		
		Inhalation	500 mg/m	WUNCI3			
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Local		
		Inhalation	-				
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Systemic		
[3-(2,3-epoxypropoxy)propyl]	DNEL	Inhalation Long term Oral	5 mg/kg	General	Systemic		
trimethoxysilane			bw/day	population	Systemio		
	DNEL	Long term Dermal	5 mg/kg	General	Systemic		
			bw/day	population			
	DNEL	Long term Dermal	10 mg/kg	Workers	Systemic		
	DNEL	Long term	bw/day 17 mg/m³	General	Systemic		
		Inhalation	_	population	- ,		
	DNEL	Long term	70.5 mg/m <sup>3</sup>	Workers	Systemic		
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S	ECTION 8: Exposu	re con	trols/p	personal prote	ction		
			DNEL	Inhalation Short term Inhalation	26400 mg/ m <sup>3</sup>	General population	Systemic
P	<u>NECs</u>						
	No PNECs available.						
8.2	2 Exposure controls						
	Appropriate engineering controls	vent cont cont	ilation or aminants rols also	a adequate ventilation other engineering co s below any recomme need to keep gas, va its. Use explosion-pr	entrols to keep ended or state apor or dust c	o worker exposure utory limits. The er oncentrations belo	to airborne ngineering
<u>lı</u>	ndividual protection meas	ures					
	Hygiene measures	befc App Con cont	re eating ropriate t taminate aminate	, forearms and face t , smoking and using echniques should be d work clothing shoul d clothing before reus close to the workstat	the lavatory a used to remo ld not be allov sing. Ensure	and at the end of th ove potentially cont wed out of the work	e working period. aminated clothing. place. Wash
	Eye/face protection	asse gase unle	essment es or dus	ear complying with an indicates this is nece ts. If contact is possi ssessment indicates a	ssary to avoid ible, the follow	d exposure to liquic wing protection sho	l splashes, mists, ould be worn,
	Skin protection						
	Hand protection	be v this cheo shou diffe seve estir	vorn at al is necess ck during uld be no rent for c eral subs mated.	sistant, impervious glo I times when handling sary. Considering the use that the gloves a ted that the time to be lifferent glove manufa tances, the protection	g chemical pr e parameters are still retain reakthrough f acturers. In t n time of the g	oducts if a risk ass specified by the gl ing their protective for any glove mater he case of mixture gloves cannot be a	essment indicates ove manufacturer, properties. It ial may be s, consisting of ccurately
		proc	luct is the	st check that the fina e most appropriate ar ded in the user's risk	nd takes into	account the particu	
	Body protection	bein befo wea disc Euro	g perforr ore handli r anti-sta harges, c opean Sta	tective equipment for ned and the risks inve- ng this product. Whe tic protective clothing clothing should includ andard EN 1149 for fis and test methods.	olved and sho en there is a i g. For the gre le anti-static c	ould be approved b risk of ignition from atest protection fro overalls, boots and	y a specialist static electricity, om static gloves. Refer to
	Other skin protection	sele	cted bas	ootwear and any add ed on the task being a specialist before ha	performed ar	nd the risks involve	
	Respiratory protection	appi resp	ropriate s	e hazard and potentia standard or certificatio rotection program to se.	on. Respirato	ors must be used a	ccording to a
	Environmental exposure controls	ensi In so	ure they o ome case	om ventilation or work comply with the requir es, fume scrubbers, f ill be necessary to rea	rements of er ilters or engir	nvironmental protection	ction legislation. ns to the process
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## **SECTION 9: Physical and chemical properties**

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

#### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Colorless.
Odor	: Characteristic.
Odor threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flammability	: Not available.
Lower and upper explosion limit	: Not available.
Flash point	: 🗭 losed cup: 24°

: Closed cup: 24°C (75.2°F) [Pensky-Martens]

#### Auto-ignition temperature

Ingredient name	°C	°F	Method	
3-(2,3-epoxypropoxy)propyl]trimethoxysilane	400	752	DIN 51794	
n-butyl acetate	415	779	EU A.15	
cyclohexanone	420	788		

#### **Decomposition temperature** : Not available.

рН	: Not available. [DIN EN 1262]
Viscosity	: Kinematic (room temperature): 9 mm²/s [DIN EN ISO 3219]
	Kinematic (40°C): 6 mm²/s [DIN EN ISO 3219]

#### Solubility(ies)

Media	Result
cold water	Not soluble [OESO (TG 105)]

#### **Partition coefficient: n-octanol/** : Not applicable.

#### water

#### Vapor pressure

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
p-butyl acetate	11.25	1.5	DIN EN 13016-2			
cyclohexanone	3.75	0.5				
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	0.62	0.083	EU A.4			
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	0.0082	0.0011				

### Density

: 127 g/cm<sup>3</sup> [DIN EN ISO 2811-1]

#### Vapor density

#### Particle characteristics

Median particle size

: Not applicable.

: Not available.



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	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.		
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials		
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<i>c</i> yclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	1 mL/kg	-
	LD50 Intraperitoneal	Guinea pig	930 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Oral	Mouse	1400 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
	LD50 Oral	Rat	1620 uL/kg	-
	LD50 Subcutaneous	Rat	2170 mg/kg	-
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	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LD50 Dermal	Rabbit	3970 uL/kg	-
	LD50 Oral	Rat	7.01 g/kg	-
	LD50 Oral	Rat	22600 uĽ/kg	-

**Conclusion/Summary** : Not available.

Irritation/Corrosion



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## **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Skin - Mild irritant	Rabbit	-	24 hours 500 Ul	-
and phenol	Fuer Courses inside at	Dahkit		00	
cyclohexanone	Eyes - Severe irritant Eyes - Severe irritant	Rabbit Rabbit	-	20 mg 24 hours 250 ug	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
,	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Eyes - Mild irritant	Rabbit	-	mg 100 mg	-
unneuloxysilane	Skin - Mild irritant	Rabbit	-	500 mg	-
Conclusion/Summary	: Not available.				
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
<u>Carcinogenicity</u>					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
<u>Teratogenicity</u>					
Conclusion/Summary	: Not available.				
Specific target organ toxicity	<u>y (single exposure)</u>				

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	-	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 irritation.
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 or irritation watering redness		
Inhalation	: No specific data.		
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Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effec	<u>ts</u>	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.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<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.
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.

### 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

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 classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
♥yclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
n-butyl acetate	Acute LC50 630000 µg/l Fresh water Acute LC50 527000 µg/l Fresh water Acute LC50 732000 µg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 62000 µg/l Fresh water Acute LC50 100000 µg/l Fresh water Acute LC50 185000 µg/l Marine water Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas Fish - Pimephales promelas Fish - Pimephales promelas Crustaceans - Artemia salina Fish - Danio rerio Fish - Lepomis macrochirus Fish - Menidia beryllina Fish - Pimephales promelas	96 hours 96 hours 96 hours 48 hours 96 hours 96 hours 96 hours 96 hours

Conclusion/Summary

: Not available.

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## **SECTION 12: Ecological information**

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.7	-	low
cyclohexanone n-butyl acetate	0.86 2.3	-	low low

#### 12.4 Mobility in soil

Soil/water partition coefficient (K <sub>oc</sub> )	: 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.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or 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:

	Waste code	Waste designation
	EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
<u>P</u>	ackaging	

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SECTION 13: Disposal considerations		
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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.	

# **SECTION 14: Transport information**

		R/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263		UN1263	UN1263
14.2 UN proper shipping name	PAINT		PAINT	PAINT
14.3 Transport hazard class(es)		2		3
14.4 Packing group	111		111	111
14.5 Environmental hazards	Yes.		Marine Pollutant(s): Phenol, polymer with formaldehyde, glycidyl ether, Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	Yes. The environmentally hazardous substance mark is not required.
Additional informat	ion		·	·
ADR/RID	siz	e environmentall es of ≤5 L or ≤5 I <b>nnel code</b> (D/E)		not required when transported in
IMDG	<ul> <li>Emergency schedules F-E, _S-E_</li> <li>The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.</li> <li>IMDG Code Segregation group Not applicable</li> </ul>			
ΙΑΤΑ	<ul> <li>The environmentally hazardous substance mark may appear if required by other transportation regulations.</li> </ul>			
14.6 Special precau user	autions 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 Maritime transp bulk according to IN instruments		ot applicable.		
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SECTION 15: Regula	to	ry information	
15.1 Safety, health and enviro EU Regulation (EC) No. 190 Annex XIV - List of substar	7/2		for the substance or mixture
Annex XIV		s subject to authorization	
None of the components a	re	listed.	
Substances of very high of	col	<u>ncern</u>	
None of the components a	re	listed.	
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	:	The provisions of Directive 2004/42/EC product label and/or technical data shee	on VOC apply to this product. Refer to the t for further information.
VOC for Ready-for-Use Mixture	:	Not available.	
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed	
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed	
Ozone depleting substance Not listed.	<u>es</u>	<u>(1005/2009/EU)</u>	
Prior Informed Consent (Pl	lC)	(649/2012/511)	
Not listed.	<u>ic</u> )		
Persistent Organic Polluta Not listed.	<u>nts</u>		
Seveso Directive			
This product is controlled un	dei	the Seveso Directive.	
Danger criteria			
Category			
P5c E2			
National regulations			
Industrial use	:	own assessment of workplace risks, as legislation. The provisions of the nationa to the use of this product at work.	data sheet does not constitute the user's required by other health and safety al health and safety at work regulations apply
Social Security Code, Articles L 461-1 to L 461-7	:	øyclohexanone n-butyl acetate	RG 84 RG 84
Reinforced medical surveillance	:	Decree n ° 2012-135 of January 30, 201 occupational medicine: not applicable	
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SECTION 15: Regulatory information			
International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.			
Montreal Protocol Not listed.			
Stockholm Convention on Persistent Organic Pollutants Not listed.			
Rotterdam Convention on Prior Informed Consent (PIC) Not listed.			
UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.			
Inventory list Eurasian Economic Union : Russian Federation inventory: All components are listed or exempted.			
<b>15.2 Chemical Safety</b> : No Chemical Safety Assessment has been carried out. Assessment			
SECTION 16: Other information			
Indicates information that has changed from previously issued version.			
Abbreviations and acronyms       : 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
		vPvB = Very Persistent and Very Bioaccumulative
_		

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

Classification	Justification
<b>F</b> am. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

#### Full text of abbreviated H statements

H226	Flammable liquid and vapor.
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.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### Full text of classifications [CLP/GHS]

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SECTION 16: Other information				
Acute Tox. 4 Aquatic Chronic 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT SE 3		ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3		
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#### **Unique ID**

#### Notice to reader

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