

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

# **SAFETY DATA SHEET**

F69 HARDENER

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

1.1 Product ident	ifier
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Product name	:	F69 HARDENER
SDS code	:	21069000D

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

	Identified uses	
Paint. Professional u	se Industrial use	
	Uses advised against	
All other uses		
Product use	: Two component coating for interior 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

responsible for this SDS

#### 1.4 Emergency telephone number

National advisory body/Poison Center		
Telephone number	: 145	
<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]

Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Corr. 1C, H314 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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## **SECTION 2: Hazards identification**

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

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Mammable liquid and vapor. Harmful if swallowed.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>Suspected of causing genetic defects.</li> <li>May damage fertility or the unborn child.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Øbtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing 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	: 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	<ul> <li>Feaction product: bisphenol-A-(epichlorhydrin); epoxy resin nitroethane</li> <li>1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane</li> <li>[3-(2,3-epoxypropoxy)propyl]trimethoxysilane</li> </ul>
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to professional users.
Special packaging requirem	nents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.

#### 2.3 Other hazards

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## **SECTION 2: Hazards identification**

 Product meets the criteria
 : This mixture does not contain any substances that are assessed to be a PBT or a vPvB according to Regulation (EC) No.

 1907/2006, Annex XIII
 : 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.

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

3.2 Mixtures : Mixture				
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
nitroethane	REACH #: 01-2119966158-27 EC: 201-188-9 CAS: 79-24-3 Index: 609-035-00-1	≥25 - ≤50	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332	[1] [2]
1,3-Propanediol, 2-ethyl-2- (hydroxymethyl)-, polymer with 2- (chloromethyl)oxirane	REACH #: 01-2120078341-60 CAS: 30499-70-8	≥10 - ≤25	Skin Corr. 1C, H314 Skin Sens. 1B, H317 Muta. 2, H341 (oral) Repr. 1B, H360 (oral) Aquatic Chronic 2, H411	[1]
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	REACH #: 01-2119513212-58 EC: 219-784-2 CAS: 2530-83-8	≤5	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>

[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

Eye o	contact
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: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.



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SECTION 4: First aid measures		
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.	
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out 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.

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 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane. May produce an allergic reaction.

#### Over-exposure signs/symptoms

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

SECTION 4: First aid	
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
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.
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 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 nitrogen oxides 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.



SECTION 5: Firefighting measures			
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.		
<b>SECTION 6: Accident</b>	al release measures		
6.1 Personal precautions, prot	ective 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. Do not breathe 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

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	: Fut 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. 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 vapor 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
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### SECTION 7: Handling and storage

(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. Store locked up. 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

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

#### 7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific 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	
nitroethane		SUVA (Switzerland, 1/2020). Absorbed through skin. Notes: not temporary STEL: 312 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 62 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.	
Recommended monitoring procedures	atmosphere or k of the ventilation protective equip the following: E the assessment limit values and atmospheres - 0 of exposure to o (Workplace atm for the measure	ontains ingredients with exposure limits, biological monitoring may be required to a or other control measures and/or the n ment. Reference should be made to mo uropean Standard EN 689 (Workplace a of exposure by inhalation to chemical a measurement strategy) European Stan Guide for the application and use of proc chemical and biological agents) Europea ospheres - General requirements for the ment of chemical agents) Reference to nethods for the determination of hazardo	determine the effectiveness ecessity to use respiratory onitoring standards, such as atmospheres - Guidance for gents for comparison with dard EN 14042 (Workplace edures for the assessment an Standard EN 482 e performance of procedures national guidance
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## **SECTION 8: Exposure controls/personal protection**

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	DNEL	Short term Inhalation	0.75 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	0.75 mg/m³	General population [Consumers]	Systemic
	DNEL	Short term Oral	0.75 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.75 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	3.571 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.571 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	8.33 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	12.25 mg/	Workers	Systemic
	DNEL	Long term Inhalation	12.25 mg/ m³	Workers	Systemic
nitroethane	DNEL	Long term Inhalation	2 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	General population	Local
	DNEL	Short term Inhalation	5 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	8.4 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	15 mg/m³	General population	Local
	DNEL	Short term Inhalation	17 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	25 mg/m³	Workers	Local
	DNEL	Short term Inhalation	50 mg/m³	Workers	Local
	DNEL	Long term Dermal	210 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	350 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	1250 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	2100 mg/ kg bw/day	Workers	Systemic
3-(2,3-epoxypropoxy)propyl] rimethoxysilane	DNEL	Long term Oral	12.5 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	12.5 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	21 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	147 mg/m <sup>3</sup>	Workers	Systemic

#### PNECs



SECTION 8: Exposu	SECTION 8: Exposure controls/personal protection				
Product/ingredient name		Compartment Detail	Value	Method Detail	
(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)		Fresh water Marine water Sewage Treatment Plant	3 μg/l 0.3 μg/l 10 mg/l	-	
		Fresh water sediment Marine water sediment Sediment	0.5 mg/kg dwt 0.5 mg/kg dwt 0.05 mg/kg dwt	-	
8.2 Exposure controls					
Appropriate engineering controls	ventilation or contaminants controls also	n adequate ventilation. Us other engineering control s below any recommended need to keep gas, vapor nits. Use explosion-proof v	s to keep worker ex d or statutory limits. or dust concentratio	posure to airborne The engineering ns below any lower	
Individual protection meas	sures				
Hygiene measures	before eating Appropriate t Contaminate contaminate	<ul> <li>forearms and face thoroug, smoking and using the latechniques should be used ad work clothing should no d clothing before reusing.</li> <li>close to the workstation latechnic should not</li> </ul>	avatory and at the e to remove potentia t be allowed out of t Ensure that eyewas	nd of the working period. ally contaminated clothing he workplace. Wash	
Eye/face protection	assessment gases or dus unless the as	ear complying with an app indicates this is necessary sts. If contact is possible, f ssessment indicates a higl /or face shield. If inhalatio ead.	/ to avoid exposure the following protec ner degree of protec	to liquid splashes, mists, tion should be worn, ction: chemical splash	
Skin protection					
Hand protection	be worn at a this is neces check during should be no different for o	sistant, impervious gloves Il times when handling che sary. Considering the para use that the gloves are st oted that the time to breakt different glove manufacture tances, the protection time	emical products if a ameters specified b ill retaining their pro hrough for any glov ers. In the case of p	risk assessment indicates y the glove manufacturer, otective properties. It e material may be mixtures, consisting of	
	protection cla recommende When only b (breakthroug Recommend	aged or frequently repeated ass of 6 (breakthrough tim ed. Recommended gloves rief contact is expected, a th time >30 minutes accord led gloves: Nitrile, thicknes Id be replaced regularly ar	e >480 minutes acc s: Viton ® or Nitrile, glove with protection ding to EN374) is re ss ≥ 0.12 mm.	cording to EN374) is thickness ≥ 0.38 mm. on class of 2 or higher ecommended.	
	chemical dar	ance or effectiveness of th mage and poor maintenan	ce.		
	product is the	st check that the final cho e most appropriate and tal ded in the user's risk asse	kes into account the		



# SECTION 8: Exposure controls/personal protection

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	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

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

<u>Appearance</u>		
Physical state	iquid.	
Color	Colorless.	
Odor	Characteristic.	
Odor threshold	lot available.	
рН	lot available.	
Melting point/freezing point	lot available.	
Initial boiling point and	lot available.	
boiling range		
Flash point	Closed cup: 47°C	
Evaporation rate	lot available.	
Flammability (solid, gas)	lot available.	
Upper/lower flammability or explosive limits	lot available.	
Vapor pressure	lot available.	
Vapor density	lighest known value: 2.6 (Air = 1) (1,3-Propanediol, 2-ethyl-2-(hydroxy olymer with 2-(chloromethyl)oxirane). Weighted average: 2.17 (Air = 1	
Density	.117 g/cm <sup>3</sup>	
Solubility(ies)	nsoluble in the following materials: cold water.	
Partition coefficient: n-octanol/ water	lot available.	
Auto-ignition temperature	lot available.	
Decomposition temperature	lot available.	
Viscosity	(inematic (room temperature): 0.09 cm²/s (inematic (40°C): 0.2 cm²/s	



<b>SECTION 10: Stabilit</b>	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
nitroethane	LD50 Intraperitoneal	Mouse	310 mg/kg	-
	LD50 Oral	Mouse	860 mg/kg	-
	LD50 Oral	Rat	1100 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

reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average	Eyes - Mild irritant	Rabbit	-	100 mg	-
molecular weight ≤ 700)					
	Skin - Moderate irritant	Rabbit	-	24 hours 500 Ul	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Eyes - Mild irritant	Rabbit	-	100 mg	-
	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>					
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<b>SECTION 11: Toxic</b>	logical information	
Conclusion/Summary	: Not available.	
Specific target organ toxic		
Not available.	<b>, , , , , , , , , , , , , , , , , , , </b>	
Specific target organ toxic	v (reneated exposure)	
Not available.		
Aspiration hazard		
Not available.		
Information on the likely	: Not available.	
routes of exposure		
Potential acute health effect		
Eye contact	- Causes serious eye damage.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Zauses severe burns. May cause an allergic skin reaction.	
Ingestion	: Harmful if swallowed.	
-		
Symptoms related to the pl	sical, chemical and toxicological characteristics	
Eye contact	: Adverse symptoms may include the following:	
	pain watering	
	redness	
Inhalation	: Koverse symptoms may include the following:	
	reduced fetal weight	
	increase in fetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following:	
	pain or irritation	
	redness	
	blistering may occur reduced fetal weight	
	increase in fetal deaths	
	skeletal malformations	
Ingestion	<ul> <li>Adverse symptoms may include the following: stomach pains</li> </ul>	
	reduced fetal weight	
	increase in fetal deaths	
	skeletal malformations	
Delayed and immediate effe	ts and also chronic effects from short and long term exposite	ure
Short term exposure		
Potential immediate	: Not available.	
effects		
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health e	ects	
Not available.		
Conclusion/Summary	: Not available.	
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SECTION 11: Toxicological information			
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	: Suspected of causing genetic defects.		
Reproductive toxicity	: $\mathbf{M}$ ay damage fertility or the unborn child.		
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.

**Conclusion/Summary** : Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol- A-(epichlorhydrin); epoxy	2.64 to 3.78	31	low
resin nitroethane	0.18	-	low

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

: 30-9-2022

### **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

Date of previous issue

Product			
Methods of disposal	Disposal of this produc with the requirements and any regional local recyclable products via	te should be avoided or minimized wherever possible. ct, solutions and any by-products should at all times cor of environmental protection and waste disposal legislat authority requirements. Dispose of surplus and non- a a licensed waste disposal contractor. Waste should r to the sewer unless fully compliant with the requiremen ediction.	ion not be
Hazardous waste	: The classification of th	e product may meet the criteria for a hazardous waste.	
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AkzoNobe

## SECTION 13: Disposal considerations

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
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. 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

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	₩N3469	<b>₩</b> N3469	<b>W</b> N3469
14.2 UN proper shipping name	AINT, FLAMMABLE, CORROSIVE	AINT, FLAMMABLE, CORROSIVE	AINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)			<b>(8)</b>
14.4 Packing group	111		111
14.5 Environmental hazards	Yes.	Marine Pollutant(s): Peaction product: bisphenol-A- (epichlorhydrin); epoxy resin, 1,3-Propanediol, 2-ethyl-2- (hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane	Yes. The environmentally hazardous substance mark is not required.

#### Additional information

ADR/RID	: The environmentally has sizes of ≤5 L or ≤5 kg. <u>Tunnel code</u> (D/E)			
IMDG	: Emergency schedules The marine pollutant m	F-E, S-C ark is not required when transported	in sizes of ≤5 L or ≤5 kg.	
ΙΑΤΑ	: The environmentally hat transportation regulatio	zardous substance mark may appea ns.	ar if required by other	
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## **SECTION 14: Transport information**

14.6 Special precautions for user	: <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 in bulk according to IMO instruments	: Not applicable.
SECTION 15: Regulat	tory information
EU Regulation (EC) No. 1907	onmental regulations/legislation specific for the substance or mixture 7/2006 (REACH) Inces subject to authorization
Annex XIV	
None of the components ar	e listed.
Substances of very high o	<u>concern</u>
None of the components ar	e listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to professional users.
Other EU regulations	
voc	: 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.
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 substance Not listed.	<u>es (1005/2009/EU)</u>
Prior Informed Consent (PI Not listed.	<u>C) (649/2012/EU)</u>
<u>Seveso Directive</u> This product is controlled une Danger criteria	der the Seveso Directive.

	ategory	
	5c 2	
Na	2 onal regulations	
	Side regulations	

Industrial use	I he 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.		
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	F69 HARDENER			
SECTION 15: Regulatory information				
VOC content	VOC content : Exempt.			
International regulations				
<u>Chemical Weapon Conv</u>	ention List Schedules I, II & III Chemicals			
Not listed.	Not listed.			
Montreal Protocol				
Not listed.				
Stockholm Convention	Stockholm Convention on Persistent Organic Pollutants			
Not listed.				
Rotterdam Convention of	Rotterdam Convention on Prior Informed Consent (PIC)			
Not listed.				
UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.				
Inventory list	<b>.</b>			
Europe	: Not determined.			
15.2 Chemical Safety	: No Chemical Safety Assessment has been carried out.			
Assessment				
SECTION 16: Other information				
Indicates information that has changed from previously issued version.				
Abbreviations and : ATE = Acute Toxicity Estimate				

Appreviations and	: ATE – Adule Toxicity Estimate
acronyms	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
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H302	Calculation method
Skin Corr. 1C, H314	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Repr. 1B, H360	Calculation method
Aquatic Chronic 2, H411	Calculation method

### Full text of abbreviated H statements

<mark>₩</mark> 226		Flammable liquid and vapor.	
H302		Harmful if swallowed.	
H314		Causes severe skin burns and eye damage.	
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.	
H341		Suspected of causing genetic defects.	
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360       May damage fertility or the unborn child. Toxic to aquatic life with long lasting effects.         III text of classifications [CLP/GHS]         Cute Tox. 4 quatic Chronic 2 ye Dam. 1 ye Irrit. 2 am. Liq. 3 uta. 2 epr. 1B kin Corr. 1C kin Sens. 1B       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 GERM CELL MUTAGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 1C SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - C				
411       Toxic to aquatic life with long lasting effects.         Il text of classifications [CLP/GHS]         bute Tox. 4       ACUTE TOXICITY - Category 4         quatic Chronic 2       AQUATIC HAZARD (LONG-TERM) - Category 2         ye Dam. 1       SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1         ye Irrit. 2       SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2         am. Liq. 3       FLAMMABLE LIQUIDS - Category 3         uta. 2       GERM CELL MUTAGENICITY - Category 1         epr. 1B       TOXIC TO REPRODUCTION - Category 1B         kin Corr. 1C       SKIN CORROSION/IRRITATION - Category 1C         kin Sens. 1       SKIN SENSITIZATION - Category 1         kin Sens. 1       SKIN SENSITIZATION - Category 1B         te of printing       : 27 October 2022         vision       : 4 October 2022	SECTION 16: Other information			
III text of classifications [CLP/GHS]         Cute Tox. 4 quatic Chronic 2 ye Dam. 1 ye Irrit. 2 am. Liq. 3 uta. 2 epr. 1B kin Corr. 1C kin Irrit. 2 kin Sens. 1 kin Sens. 1B       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 GERM CELL MUTAGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1B         te of printing       : 27 October 2022         te of issue/ Date of       : 4 October 2022	H360		May damage fertility or the unborn child.	
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am. Liq. 3FLAMMABLE LIQUIDS - Category 3uta. 2GERM CELL MUTAGENICITY - Category 2epr. 1BTOXIC TO REPRODUCTION - Category 1Bkin Corr. 1CSKIN CORROSION/IRRITATION - Category 1Ckin Irrit. 2SKIN CORROSION/IRRITATION - Category 2kin Sens. 1SKIN SENSITIZATION - Category 1kin Sens. 1BSKIN SENSITIZATION - Category 1Bte of printing: 27 October 2022te of issue/ Date of: 4 October 2022	Eye Dam. 1		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	
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epr. 1BTOXIC TO REPRODUCTION - Category 1Bkin Corr. 1CSKIN CORROSION/IRRITATION - Category 1Ckin Irrit. 2SKIN CORROSION/IRRITATION - Category 2kin Sens. 1SKIN SENSITIZATION - Category 1kin Sens. 1BSKIN SENSITIZATION - Category 1Bite of printing: 27 October 2022ite of issue/ Date of: 4 October 2022	Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 3	
kin Corr. 1C kin Irrit. 2 kin Sens. 1 kin Sens. 1BSKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1Bte of printing: 27 October 2022 : 4 October 2022te of issue/ Date of vision: 4 October 2022	Muta. 2		GERM CELL MUTAGENICITY - Category 2	
kin Irrit. 2       SKIN CORROSION/IRRITATION - Category 2         kin Sens. 1       SKIN SENSITIZATION - Category 1         kin Sens. 1B       SKIN SENSITIZATION - Category 1B         ite of printing       : 27 October 2022         ite of issue/ Date of       : 4 October 2022	Repr. 1B			
kin Sens. 1       SKIN SENSITIZATION - Category 1         kin Sens. 1B       SKIN SENSITIZATION - Category 1B         ite of printing       : 27 October 2022         ite of issue/ Date of       : 4 October 2022	Skin Corr. 1C		SKIN CORROSION/IRRITATION - Category 1C	
kin Sens. 1B     SKIN SENSITIZATION - Category 1B       ite of printing     : 27 October 2022       ite of issue/ Date of     : 4 October 2022       vision     : 4 October 2022	Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2	
ate of printing     : 27 October 2022       ate of issue/ Date of     : 4 October 2022       vision     : 4 October 2022	Skin Sens. 1			
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## Unique ID

Version

#### Notice to reader

#### FOR PROFESSIONAL USE ONLY

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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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