

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

SAFETY DATA SHEET

P60-A HARDENER

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

1.1 Product identifierProduct name: P60-A HARDENERSDS code: 21060500D

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

	Identified uses
Professional use Industrial use	
	Uses advised against
All other uses	
Product use	: Two component coating for interior use.
.3 Details of the supplier of	the safety data sheet
MAPAERO SAS 10, Avenue de la Rij 09103 PAMIERS Ce France	ole CS30098
e-mail address of person responsible for this SDS	: PSRA_PAMIERS@akzonobel.com
.4 Emergency telephone nu	ımber
Telephone number	: (0551) 19240
<u>Supplier</u>	
Telephone number	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30

SECTION 2: Hazards identification

:

Hours of operation

2.1 Classification of the sul	bstance or mixture		
Product definition	: Mixture		
Classification according t	o Regulation (EC) No. 127	72/2008 [CLP/GHS]	
Flam. Liq. 3, H226			
Acute Tox. 4, H302			
Skin Corr. 1C, H314			
Eye Dam. 1, H318			
Skin Sens. 1, H317			
Muta. 2, H341			
Repr. 1B, H360			
Aquatic Chronic 2, H411			
Date of issue/Date of revision	: 7-6-2023	Version : 6	
Date of previous issue	: 5-5-2023	1/18	AkzoNobel

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

P60-A HARDENER

SECTION 2: Hazards identification

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

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May damage fertility or the unborn child. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Obtain 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	 bis-[4-(2,3-epoxipropoxi)phenyl]propane nitroethane 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane
Supplemental label elements	: Not applicable.
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	<u>ients</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.

2.3 Other hazards

Date of issue/Date of revision	: 7-6-2023	Version : 6	
Date of previous issue	: 5-5-2023	2/18	AkzoNobel

SECTION 2: Hazards identification

Product meets the criteria : for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do

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

: None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
øs-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1] [2]
nitroethane	REACH #: 01-2119966158-27 EC: 201-188-9 CAS: 79-24-3	≥25 - ≤50	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Repr. 2, H361 (inhalation) Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
1,3-Propanediol, 2-ethyl-2- (hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane	REACH #: 01-2120078341-60 CAS: 30499-70-8	≥20 - ≤25	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Muta. 2, H341 (oral) Repr. 1B, H360 (oral) Aquatic Chronic 2, H411	-	[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. Type

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: 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.



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. : Get medical attention immediately. Call a poison center or physician. Wash with Skin contact 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. 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 bis-[4-(2,3-epoxipropoxi)phenyl]propane, 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2- (chloromethyl)oxirane. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
	redness

Date of issue/Date of revision	: 7-6-2023	Version : 6	
Date of previous issue	: 5-5-2023	4/18	AkzoNobel

ECTION 4: First	
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 immediate medical attention and special treatment needed Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed

SECTION 5. Eirofighting macauraa		
Specific treatments : No specific treatment.		
The exposed person may need to be kept under medical surve	, ,	

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Use dry chemical, CO_2 , water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	ron	ו 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
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. 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 fo	or c	ontainment 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
 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. 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 (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.

SECTION 7: Handling and storage

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
-		50000 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 n	Product/ingredient name		Exposure limit values			
pis-[4-(2,3-epoxipropoxi)phenyl]propane nitroethane		 DFG MAC-values list (Germany, 10/2021). Skin sensitizer. DFG MAC-values list (Germany, 10/2021). Absorbed through skin. PEAK: 124 mg/m³, 4 times per shift, 15 minutes. PEAK: 40 ppm, 4 times per shift, 15 minutes. TWA: 31 mg/m³ 8 hours. TWA: 10 ppm 8 hours. TRGS 900 OEL (Germany, 2/2022). Absorbed through skin. PEAK: 40 ppm 15 minutes. PEAK: 40 ppm 3 8 hours. TWA: 31 mg/m³ 8 hours. TWA: 124 mg/m³ 15 minutes. PEAK: 40 ppm 15 minutes. TWA: 31 mg/m³ 8 hours. TWA: 10 ppm 8 hours. 				
procedures	atmosphere or l of the ventilation protective equip the following: E the assessment limit values and atmospheres - (n or other control measures and oment. Reference should be ma suropean Standard EN 689 (Wo t of exposure by inhalation to ch measurement strategy) Europ	quired to determine the effectiveness d/or the necessity to use respiratory ade to monitoring standards, such as orkplace atmospheres - Guidance for nemical agents for comparison with bean Standard EN 14042 (Workplace se of procedures for the assessment			
Date of issue/Date of revision	: 7-6-2023	Version				
Date of previous issue	: 5-5-2023	7/18	AkzoNobel			

SECTION 8: Exposure controls/personal protection

(Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
øís-[4-(2,3-epoxipropoxi)phenyl] propane	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m ³	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/m³	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
1,3-Propanediol, 2-ethyl-2- (hydroxymethyl)-, polymer with 2- (chloromethyl)oxirane	DNEL	Long term Dermal	0.67 mg/ kg bw/day	Workers	Systemic
(-, , , , , , , , , ,	DNEL	Long term Inhalation	1.17 mg/m ³	Workers	Systemic

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

ECTION 8: Exposure	re controls/personal protection
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products,
nygiene measures	before eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminated clothin Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may b required instead.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacture check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness \geq 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness \geq 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glov material.
	The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.
	The user must check that the final choice of type of glove selected for handling th product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
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 importa 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

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	: Closed cup: 24°C (7

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(75.2°F) [Pensky-Martens]

Auto-ignition temperature

Ingredient name		°C	°F	Method
[3-(2,3-epoxypropoxy)propyl]trimethox	ysilane	400	752	DIN 51794
nitroethane		414	777.2	
Decomposition temperature	: Not ava	ilable.		
ЭΗ	: Not ava	ilable. [DIN EN 12	62]	
/iscosity			ture): 9 mm²/s [DIN ²/s [DIN EN ISO 32	
Solubility(ies)	:		-	-

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
pi troethane	20.9	2.8				
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	0.0082	0.0011				

Density

: 1.118 g/cm³ [DIN EN ISO 2811-1]

: Not available.

: Not applicable.

Vapor density

Particle characteristics

: 0

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Median particle size

Percentage of particles with aerodynamic diameter ≤ 10 μm

Date of issue/Date of revision Date of previous issue



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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
pís-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	20 g/kg	-
	LD50 Intraperitoneal	Mouse	4 g/kg	-
	LD50 Intraperitoneal	Rat	2200 mg/kg	-
	LD50 Oral	Mouse	15600 mg/kg	-
	LD50 Oral	Rabbit	1980 mg/kg	-
	LD50 Oral	Rat	11300 uL/kg	-
nitroethane	LD50 Intraperitoneal	Mouse	310 mg/kg	-
	LD50 Oral	Mouse	860 mg/kg	-
	LD50 Oral	Rat	1100 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
S2/21060500D-TRA_HARD_P60	1538.5	N/A	N/A	33.8	N/A
nitroethane	500	N/A	N/A	11	N/A

Irritation/Corrosion

Date of previous issue

Product/ingredient name	Result	Species	Score	Exposure	Observation
øis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
phenyipropane	Skin - Mild irritant	Rabbit	-	mg 500 mg	-
Conclusion/Summary	: Not available.		•		•
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
ate of issue/Date of revision	: 7-6-2023	Vers	i on :6		
ate of previous issue	: 5-5-2023	11/1	8		AkzoNobe

SECTION 44. Taxiaa	
SECTION 11: Toxico	•
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
<u>Teratogenicity</u>	
Conclusion/Summary	: Not available.
Specific target organ toxici	ty (single exposure)
Not available.	
Specific target organ toxici	t <u>y (repeated exposure)</u>
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 severe burns. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Cumptomo volotod to the phy	reisel, shaminal and toxical grindlaharastaristica
Eye contact	 /sical, chemical and toxicological characteristics 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:
v	stomach pains
	reduced fetal weight increase in fetal deaths
	skeletal malformations
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.

Date of issue/Date of revision	: 7-6-2023	Version : 6	
Date of previous issue	: 5-5-2023	12/18	AkzoNobel

SECTION 11: Toxicological information

Potential delayed effects : Not available. Potential chronic health effects

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	: Suspected of causing genetic defects.
Reproductive toxicity	: May damage fertility or the unborn child.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

No additional information.

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
pitroethane	0.18	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: 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.

Date of issue/Date of revision	: 7-6-2023	Version : 6	
Date of previous issue	: 5-5-2023	13/18	AkzoNobel

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
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	 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.
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 or ID number	UN3469	UN3469	UN3469	
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)	
14.4 Packing group				
Date of issue/Date of revi	sion : 7-6-2023	Version : 6		
Date of previous issue	: 5-5-2023	14/18	AkzoNobel	

2020/878 - Germany			P60)-A HARDENER	
SECTION 14: T	ranspo	ort	information		
14.5 Environmental hazards	Yes.			Marine Pollutant(s): pis-[4-(2,3-epoxipropoxi) phenyl]propane, 1,3-Propanediol, 2-ethyl-2- (hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane	Yes. The environmentally hazardous substance mark is not required.
Additional informat	tion				1
ADR/RID		:	The environmentall sizes of ≤ 5 L or ≤ 5 <u>Tunnel code</u> (D/E)		not required when transported in
IMDG		 Emergency schedules F-E, S-C The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 k IMDG Code Segregation group Not applicable 			
ΙΑΤΑ		:	The environmentall transportation regul	y hazardous substance mark ma ations.	y appear if required by other
14.6 Special precau user	tions for	:		iser's premises: always transpo Ensure that persons transporting ident or spillage.	
14.7 Maritime trans bulk according to IM instruments		:	Not applicable.		
SECTION 15: F	Regulat	01	y information	l	
EU Regulation (EC)) No. 1907 f substan	<u>/20</u>	006 (REACH) s subject to author	egislation specific for the subs ization	stance or mixture
<u>Substances of ve</u> None of the comp					
Annex XVII - Restron on the manufactu placing on the ma and use of certain dangerous substa mixtures and artic	re, Irket Inces,	:	Restricted to profes	sional users.	
Other EU regulation	<u>ns</u>				
VOC				rective 2004/42/EC on VOC app technical data sheet for further i	
VOC for Ready-fo Mixture	r-Use		, Not available.		
Industrial emissio (integrated polluti	on	:	Not listed		

Air Industrial emissions : Not listed (integrated pollution prevention and control) -Water

prevention and control) -



SECTION 15: Regulat	tory information
Ozone depleting substance Not listed.	<u>əs (1005/2009/EU)</u>
<u>Prior Informed Consent (PI</u> Not listed.	<u>C) (649/2012/EU)</u>
Persistent Organic Pollutan Not listed.	nts
<u>Seveso Directive</u> This product is controlled une <u>Danger criteria</u>	der the Seveso Directive.
Category	
P5c E2	
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.
Storage class (TRGS 510)	: 3
Hazardous incident ordina	nce
Hazard class for water	: 3
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 67.5% TA-Luft Class II - Number 5.2.5: 32.5%
ΑΟΧ	: The product contains organically bound halogens and can contribute to the AOX value in waste water.
International regulations	
Chemical Weapon Conventi Not listed.	on List Schedules I, II & III Chemicals
Montreal Protocol Not listed.	
Stockholm Convention on P Not listed.	Persistent Organic Pollutants
Rotterdam Convention on P Not listed.	rior Informed Consent (PIC)
UNECE Aarhus Protocol on	POPs and Heavy Metals
Not listed.	
15.2 Chemical Safety Assessment	: No Chemical Safety Assessment has been carried out.



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

P60-A HARDENER

SECTION 16: Other information

Indicates information that has changed from previously issued version.
Abbroviations and
ATE = Acute Toyicity Estimate

Abbreviations and	: ATE = Acute 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
Eye Dam. 1, H318	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

H226	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.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

SECTION 16: Other information

Version

: 6

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Unique ID

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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