## SAFETY DATA SHEET



DELO-DUOPOX<sup>®</sup> MF8997 Component B **P**ERI Sealing Adhesive-3 Can CO-B

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

**1.1 Product identifier** 

**Product name** 

: DELO-DUOPOX® MF8997 Component B

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

Identified uses
Use of the substance/mixture: Adhesive.
Process categories [PROC]:
PROC01: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC02: Use in closed, continuous process with occasional controlled exposure.
PROC03: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled
exposure or processes with equivalent containment condition.
PROC04: Chemical production where opportunity for exposure arises. PROC05: Mixing or blending in batch processes.
PROC09: Transfer of substance or mixture into small containers (dedicated filling line, including weighing).
PROC10: Roller application or brushing.
Environmental release categories [ERC]:
ERC02: Formulation into mixture.
ERC05: Use at industrial site leading to inclusion into/onto article.
Product categories [PC]:
PC01: Adhesives, sealants.
Sector of uses [SU]:
SU03: Industrial uses.
SU10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys).
SU16: Manufacture of computer, electronic and optical products, electrical equipment.
SU17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment.
SU22: Professional uses.
*: Mixture.
Uses advised against

Not applicable.

Use of the substance/	: Industrial/Professional use
mixture	

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

Supplier's details	<b>DELO</b> Industrie Klebstoffe GmbH & Co. KGaA DELO-Allee 1 86949 Windach Germany Telephone no.: +49 8193 9900-0
Information contact	: sds@DELO.de Department Chemistry - Compliance

## **1.4 Emergency telephone number**

<u>General</u>

In case of emergency :

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

Telephone number	: +41 442 515 151
Hours of operation	: 24-hour telephone and/or website
<u>Transport</u>	
Telephone number	: GlobalChem24: +44 1235 239670
Hours of operation	: 24-hour telephone and/or website
Information limitations	: In case of emergency [Transport]

## **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] Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Signal word		No signal word.
Hazard statements		No known significant effects or critical hazards.
Precautionary statements	1	
Prevention	:	Not applicable.
Response		Not applicable.
Storage		Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Contains ethylenediamine. May produce an allergic reaction. Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре	
ethylenediamine	REACH #: 01-2119480383-37 EC: 203-468-6 CAS: 107-15-3 Index: 612-006-00-6	< 1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1200 mg/kg ATE [Dermal] = 1100 mg/kg	[1] [2] [3]	

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

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

## 4.1 Description of first aid measures

4.1 Description of mist alu i	licasules
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</li> </ul>
Inhalation	<ul> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</li> </ul>
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.
4.2 Most important sympton	ms and effects, both acute and delayed
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
4.3 Indication of any immed	liate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large

otes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large
	quantities have been ingested or inhaled.
nacific treatments	Ne energific treatment

**Specific treatments** : No specific treatment.

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## **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising fr	om	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide 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.
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, pro	ote	ctive 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 spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. 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.

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## SECTION 6: Accidental release measures

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6.4 Reference to other
sections
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: 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).
- 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

Storage temperature: Observe technical data sheet/instructions for use.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## SECTION 8: Exposure controls/personal protection

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

## 8.1 Control parameters

**Occupational exposure limits** 

Product/ingredient name	Exposure limit values
ethylenediamine	SUVA (Switzerland, 3/2022). Skin sensitiser. TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours. STEL: 20 ppm 15 minutes. STEL: 50 mg/m <sup>3</sup> 15 minutes.

#### **Biological exposure indices**

No exposure indices known.

**Recommended monitoring** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the procedures assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ethylenediamine	DNEL	Long term Oral	0.275 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	25 mg/m³	Workers	Systemic

## **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measu	res	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	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: safety glasses with side-shields.
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 indicates this is necessary. 1 - 4 hours (breakthrough time): Recommended: Viton® fluor rubber / Short term exposure < 15 min Nitrile gloves.
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.
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. Recommended: organic vapour filter (Type A)
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	a	nd chemical properties
<u>Appearance</u>		
Physical state	÷	Liquid.
Colour	÷	Black.
Odour	÷	Amine-like.
Melting point/freezing point	1	Technically not possible to measure
Initial boiling point and boiling range	:	Not applicable. [Polymerisation.]
Flammability	:	Non-flammable but will burn on prolonged exposure to flame or high temperature.
Flash point	÷	Not available.
Decomposition temperature	÷	Not available.
рН	÷	Not applicable.
Viscosity	÷	Not available.
Solubility(ies)	÷	
Media		Result
water		Very slightly soluble
Partition coefficient: n-octanol/ water	:	Not applicable. [Mixture.]
Vapour pressure	÷	Not available.
Relative density	:	1.7
Density	1	1.7 g/cm³
Vapour density	÷	>1 [Air = 1]
Explosive properties	1	Not available.
Oxidising properties	1	Not available.
Particle characteristics		
Median particle size	1	Not applicable. [Liquid.]

#### 9.2 Other information

SECTION 10: Stability and reactivity			
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	: The product is stable.		
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.		
10.4 Conditions to avoid	: No specific data.		
10.5 Incompatible materials	: No specific data.		

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## **SECTION 10: Stability and reactivity**

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
ethylenediamine	LD50 Oral	Rat	1200 mg/kg	-

## **Conclusion/Summary** : Not available.

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethylenediamine	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
	Eyes - Severe irritant	Rabbit	_	ug 750 ug	
	Skin - Moderate irritant	Rabbit		450 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 10	-
				mg	
<b>Conclusion/Summary</b>	: Not available.				
<u>Sensitisation</u>					
<b>Conclusion/Summary</b>	: Not available.				
<b>Mutagenicity</b>					
<b>Conclusion/Summary</b>	: Not available.				
<b>Carcinogenicity</b>					
<b>Conclusion/Summary</b>	: Not available.				
Reproductive toxicity					
<b>Conclusion/Summary</b>	: Not available.				
<b>Teratogenicity</b>					
<b>Conclusion/Summary</b>	: Not available.				
Specific target organ toxicit	<u>y (single exposure)</u>				
Not available.					
Specific target organ toxicit	v (repeated exposure)				
Not available.					
Aspiration hazard					
Not available.					
Information on likely routes of exposure	: Not available.				
Potential acute health effects					
Eye contact	: No known significant effects	or critical haza	rds.		
Inhalation	: No known significant effects	or critical haza	rds.		
Skin contact	: No known significant effects	or critical haza	rds.		
Ingestion	: No known significant effects	or critical haza	rds.		
Symptoms related to the phy	<u>sical, chemical and toxicologi</u>	cal characteris	<u>stics</u>		

Eye con	tact	: No specific data.			
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## **SECTION 11: Toxicological information**

Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
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**

Product/ingredient name	Result	Species	Exposure
ethylenediamine	Acute EC50 100000 μg/l Fresh water Acute LC50 26500 μg/l Fresh water Acute LC50 115.7 mg/l Fresh water Chronic NOEC 0.16 mg/l Fresh water	Algae - Chlorella pyrenoidosa Daphnia - Daphnia magna Fish - Pimephales promelas Daphnia - Daphnia magna	96 hours 48 hours 96 hours 21 days
Conclusion/Summary	: Not available.		

**Conclusion/Summary** 

## **12.2 Persistence and degradability**

**Conclusion/Summary** : Not available.

## **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ethylenediamine	-7.02	-	low

## 12.4 Mobility in soil

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## **SECTION 12: Ecological information**

Soil/water partition coefficient (K<sub>oc</sub>) Mobility : Not available.

: 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**

To T Waste a caunem mean	
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

European waste catalogue (EWC)

Waste code	Waste designation		
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances		
Packaging			
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.		

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
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: Not available.

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SECTION 14: Transport information				
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions 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 transport in bulk according to IMO instruments

## **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

## Annex XIV - List of substances subject to authorisation

## Annex XIV

None of the components are listed.

## Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Substance of equivalent concern for human health	ethylenediamine	Candidate	ED/61/2018	6/27/2018
Annex XVII - Restriction on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles				
Other EU regulations				
Industrial emissions (integrated pollution prevention and control) Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) Water	: Not listed			
Persistent Organic Polle Not listed.	<u>utants</u>			
<u>Seveso Directive</u>				

## SECTION 15: Regulatory information

This product is not controlled under the Seveso Directive.

## National regulations

VOC content : Exempt.

## 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.

**15.2 Chemical safety assessment** : Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and	d : 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]

Not classified.

Full text of abbreviated H statements

Flammable liquid and vapour.
Harmful if swallowed.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

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## **SECTION 16: Other information**

Acute Tox. 4 Aquatic Chronic 2	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3		
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1		
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B		
Skin Sens. 1	SKIN SENSITISATION - Category 1		
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878			
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revision	
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## Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.