SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Crystal resin for glazing

Creation date	30th April 2024
Revision date	Version 1.0

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

1.1. Product identifier — Crystal resin for glazing

Substance / mixture: mixture

UFI: JSFE-A65Y-G409-PWKV

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

Mixture's intended use

Resin for high-gloss and hard epoxy transparent glazing of most surfaces. Designed for all consumers.

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	Manumi Crafts s.r.o.
Address	Třebohostická 564/9, Praha, 10000 Czech Republic
Identification number (CRN)	24260452
VAT Reg No	CZ24260452
Phone	+420 228 229 103
E-mail	info@manumi.cz
Web address	www.manumi.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

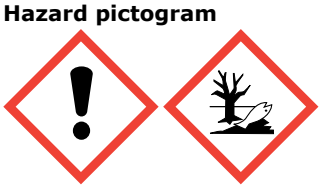
Skin Irrit. 2, H315
Skin Sens. 1B, H317
Eye Irrit. 2, H319
Aquatic Chronic 2, H411

Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazardous substances

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
benzyl alcohol
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

Supplemental information

EUH205	Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-074-00-8 CAS: 25068-38-6 EC: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	80-90	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315: C ≥ 5 % Eye Irrit. 2, H319: C ≥ 5 %	
Index: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9	benzyl alcohol	<5	Acute Tox. 4, H302 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Specific concentration limit: ATE Oral = 1200 mg/kg bw	
Index: 603-103-00-4 CAS: 68609-97-2 EC: 271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	<4	Skin Irrit. 2, H315 Skin Sens. 1, H317	
Index: 607-194-00-1 CAS: 108-32-7 EC: 203-572-1	propylene carbonate	<3	Eye Irrit. 2, H319	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

Not expected.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Storage temperature +15 - +40 °C

7.3. Specific end use(s)

The specific use is indicated in the instructions for use on the label of the product packaging or in the product documentation.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

DNEL

benzyl alcohol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	5 mg/kg/24h	Chronic effects systemic		
Consumers	Oral	25 mg/kg/24h	Acute effects systemic		
Consumers	Dermal	5.7 mg/kg/24h	Chronic effects systemic		
Workers	Dermal	9.5 mg/kg/24h	Chronic effects systemic		
Consumers	Dermal	28.5 mg/kg/24h	Acute effects systemic		
Workers	Dermal	47 mg/kg/24h	Acute effects systemic		
Consumers	Inhalation	19.1 mg/m³	Chronic effects systemic		
Workers	Inhalation	90 mg/m³	Chronic effects systemic		
Consumers	Inhalation	95.5 mg/m³	Acute effects systemic		
Workers	Inhalation	450 mg/m³	Acute effects systemic		

propylene carbonate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	25 mg/kg/24h	Chronic effects systemic		
Consumers	Dermal	25 mg/kg/24h	Chronic effects systemic		
Workers	Dermal	50 mg/kg/24h	Chronic effects systemic		
Consumers	Inhalation	43.5 mg/m³	Chronic effects systemic		
Workers	Inhalation	176 mg/m³	Chronic effects systemic		
Consumers	Inhalation	10 mg/m³	Chronic effects local		
Workers	Inhalation	20 mg/m³	Chronic effects local		

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	0.75 mg/kg/24h	Chronic effects systemic		
Consumers	Dermal	3.571 mg/kg/24h	Chronic effects systemic		
Workers	Dermal	8.33 mg/kg/24h	Chronic effects systemic		
Workers	Inhalation	12.25 mg/m³	Chronic effects systemic		
Consumers	Oral	0.75 mg/kg/24h	Acute effects systemic		
Consumers	Dermal	3.571 mg/kg/24h	Acute effects systemic		
Workers	Dermal	8.33 mg/kg/24h	Acute effects systemic		
Workers	Inhalation	12.25 mg/m³	Chronic effects systemic		

PNEC

benzyl alcohol			
Route of exposure	Value	Value determination	Source
Freshwater environment	1 mg/l		
Marine water	0.1 mg/l		
Microorganisms in sewage treatment	39 mg/l		
Freshwater sediment	5.27 mg/kg		
Sea sediments	0.527 mg/kg		
Soil (agricultural)	0.456 mg/kg		

propylene carbonate			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.9 mg/l		
Marine water	0.09 mg/l		
Microorganisms in sewage treatment	7.400 mg/l		
Freshwater sediment	0.83 mg/kg		
Sea sediments	0.083 mg/kg		
Soil (agricultural)	0.81 mg/kg		
Water (intermittent release)	9 mg/l		

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.006 mg/l		
Marine water	0.0006 mg/l		
Freshwater sediment	0.996 mg/kg		
Sea sediments	0.0996 mg/kg		
Soil (agricultural)	0.196 mg/kg		
Food chain	11 mg/kg		
Water (intermittent release)	0.018 mg/l		

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	10 mg/l		

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless, yellow
color intensity	light
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Viscosity	700 mPas at 25 °C
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.1 g/cm³ at 25 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on the available data, the criteria for classification of the mixture are not met.

Crystal resin for glazing							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	ATE		>2.000 mg/kg				Calculation of value
Inhalation	ATE		>20 mg/l	4 hours			Calculation of value

benzyl alcohol							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}		1.620 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD_{50}		>2.000 mg/kg		Rabbit		
Inhalation	LC_{50}	OECD 403	>4.178 mg/l	4 hours	Rat (Rattus norvegicus)		
Oral	ATE		1200 mg/kg bw				

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}		19.200 mg/kg				
Dermal	LD_{50}		>4.500 mg/kg		Rabbit		

propylene carbonate							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}	OECD 401	>5.000 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD_{50}	OECD 402	>2.000 mg/kg		Rabbit		
Dermal	NOAEL	OECD 414	1.000 mg/kg		Rat (Rattus norvegicus)		Reproduction
	NOEL	OECD 408	>5.000 mg/kg				

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}	OECD 420	>2.000 mg/kg		Rat (Rattus norvegicus)		
Skin	LD_{50}		>2.000 mg/kg		Rabbit		
	NOAEL		50 mg/kg				
	NOEL	OECD 416	540 mg/kg				

Skin corrosion/irritation
Causes skin irritation. Data for the components of the mixture are not available.

Serious eye damage/irritation
Causes serious eye irritation. Data for the components of the mixture are not available.

Respiratory or skin sensitisation
May cause an allergic skin reaction. Data for the components of the mixture are not available.

Germ cell mutagenicity
No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Carcinogenicity
No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Reproductive toxicity
No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure
No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - repeated exposure
No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Aspiration hazard
No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards
The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity
Toxic to aquatic life with long lasting effects.

Acute toxicity

benzyl alcohol						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC_{50}		460 mg/l	96 hours	Fish (Pimephales promelas)		

benzyl alcohol						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EC_{50}	OECD 202	230 mg/l	48 hours	Daphnia (Daphnia magna)		
IC_{50}	OECD 201	700 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		
EC_{50}	ISO 8192	390 mg/l	24 hours	Bacteria (Salmonella typhimurium)		
NOEC	OECD 201	310 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		
NOEC	OECD 211	51 mg/l	21 days	Daphnia (Daphnia magna)		

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EC_0		10 mg/l		Daphnia (Daphnia magna)		Literary studies

propylene carbonate						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC_{50}	EU C.1 (92/69/EEC)	<1.000 mg/kg	96 hours	Fish (Cyprinus carpio)		

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC_{50}		1.2 mg/l	96 hours	Fish (Oncorhynchus mykiss)		
EC_{50}	OECD 202	1.1 mg/l	48 hours	Daphnia (Daphnia magna)		
IC_{50}		>100 mg/l		Bacteria (Salmonella typhimurium)		
EC_{50}		9.4 mg/l	72 hours	Algae (Selenastrum capricornutum)		
		4.2 mg/l	72 hours	Algae (Selenastrum capricornutum)		
NOEC		0.3 mg/l	21 days	Daphnia (Daphnia magna)		

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

benzyl alcohol					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301C	92-96 %	28 days	Fresh water	Easily biodegradable
	OECD 301A	95-97 %	21 days	Fresh water	Easily biodegradable

propylene carbonate					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	83.5-87.7 %	28 days	Fresh water	Hardly biodegradable

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	5 %	28 days		Hardly biodegradable

12.3. Bioaccumulative potential

Data for the mixture are not available.

benzyl alcohol						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow	1.1					

propylene carbonate						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow	0.48					Inconclusive

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow	3.26				25°C	
BCF	1.11					

12.4. Mobility in soil

Data for the mixture are not available.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)			
Parameter	Value	Environment	Temperature
Log Koc	2.65 mg/kg		20°C

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

15 01 10* packaging containing residues of or contaminated by hazardous substances

Packaging waste type code

15 01 02 plastic packaging

15 01 04 metallic packaging

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

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SECTION 14: Transport information

14.1. UN number or ID number

UN 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

14.4. Packing group

III

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.	**90**
UN number	**3082**
Classification code	M6
Safety signs	9+hazardous for the environment

Tunnel restriction code	(-)

Air transport - ICAO/IATA

Packaging instructions passenger	964
Cargo packaging instructions	964

Marine transport - IMDG

EmS (emergency plan)	F-A, S-F

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

A list of additional standard phrases used in the safety data sheet

EUH205	Contains epoxy constituents. May produce an allergic reaction.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC_0	Concentration of a substance when it is affected 0% of the population
EC_{50}	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC_{50}	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population

log Kow	Octanol-water partition coefficient
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.