SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

ATLAS EPO-S komponent A

Creation date	17th November 2021		
Revision date		Version	2.0

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

1.1. Product identifier — ATLAS EPO-S komponent A

Substance / mixture — mixture

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

Mixture's intended use

Two-component epoxy primer.

Mixture uses advised against

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

Main intended use

PC-CON-5 Construction chemicals

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	ATLAS sp. z o.o.
Address	ul. Jana Kilińskiego 2, Łódź, 91-421 Poland
VAT Reg No	PL9471936467
Phone	+48 42 631 89 45
E-mail	msds@atlas.com.pl
Web address	www.atlas.com.pl

Competent person responsible for the safety data sheet

Name	ATLAS sp. z o.o.
E-mail	msds@atlas.com.pl

1.4. Emergency telephone number

National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

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. 1A, H317
Eye Irrit. 2, H319
Aquatic Chronic 2, H411

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

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

bis[4-(2,3-epoxypropoxy)phenyl]propane

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.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P501	Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

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

Chemical characterization

Mixture of substances and additives specified below.

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: 603-073-00-2 CAS: 1675-54-3 EC: 216-823-5 Registration number: 01-2119456619-26	bis[4-(2,3-epoxypropoxy)phenyl]propane	81-86	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315; Eye Irrit. 2, H319: C ≥ 5 %	
Index: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 Registration number: 01-2119492630-38	benzyl alcohol	13-16	Acute Tox. 4, H302+H332 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

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

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. Contaminated work clothing should not be allowed out of the workplace. 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.

7.3. Specific end use(s)

not available

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	Determining method
Workers	Inhalation	22 mg/m³	Systemic chronic effects	
Workers	Inhalation	110 mg/m³	Systemic acute effects	
Workers	Dermal	8 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	40 mg/kg bw/day	Systemic acute effects	
Consumers	Inhalation	5.4 mg/m³	Systemic chronic effects	
Consumers	Inhalation	27 mg/m³	Systemic acute effects	
Consumers	Dermal	4 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	20 mg/kg bw/day	Systemic acute effects	
Consumers	Oral	4 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	20 mg/kg bw/day	Systemic acute effects	

bis[4-(2,3-epoxypropoxy)phenyl]propane

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	4.93 mg/m³	Systemic chronic effects	
Workers	Dermal	0.75 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	0.87 mg/m³	Systemic chronic effects	
Consumers	Dermal	0.0893 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	0.5 mg/kg bw/day	Systemic chronic effects	

PNEC

benzyl alcohol

Route of exposure	Value	Determining method
Drinking water	1 mg/l	
Seawater	0.1 mg/l	
Water (intermittent release)	2.3 mg/l	
Microorganisms in wastewater treatment plants	39 mg/l	
Freshwater sediment	5.27 mg/kg of dry substance of sediment	
Sea sediments	0.527 mg/kg of dry substance of sediment	
Soil (agricultural)	0.456 mg/kg of dry substance of soil	

bis[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Value	Determining method
Drinking water	0.006 mg/l	
Water (intermittent release)	0.018 mg/l	

bis[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Value	Determining method
Seawater	0.001 mg/l	
Microorganisms in wastewater treatment plants	10 mg/l	
Freshwater sediment	0.341 mg/kg of dry substance of sediment	
Sea sediments	0.034 mg/kg of dry substance of sediment	
Soil (agricultural)	0.065 mg/kg of dry substance of soil	
Food chain	11 mg/kg of food	

8.2. Exposure controls

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 or face shield (based on the nature of the work performed).

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

Data 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
Odour	weak
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	>100 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	7 (undiluted)
Kinematic viscosity	data not available
Solubility in water	insoluble
Solubility in other solvents	dissolves in most organic solvents
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1,1-1,2 g/cm³
Relative vapour density	data not available
Particle characteristics	data not available
Form	

9.2. Other information

Explosive properties	The product does not have explosive properties.

SECTION 10: Stability and reactivity

10.1. Reactivity

Polymerizes with amines and amides.

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 available data the classification criteria are not met.

benzyl alcohol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD_{50}		1620 mg/kg bw		Rat (Rattus norvegicus)	M
Inhalation	LD_{50}	OECD 403	>4.178 mg/l	4 hour	Rat (Rattus norvegicus)	F/M
Dermal	LD_{50}	EPA OTS 798.1100	>2000 mg/kg bw/day	24 hour	Rabbit	F/M

Skin corrosion/irritation

Causes skin irritation.

benzyl alcohol

Route of exposure	Result	Method	Time of exposure	Species
Dermal	Slightly irritating	OECD 404	4 hour	Rabbit

bis[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Result	Method	Time of exposure	Species
Dermal	Slightly irritating			

Serious eye damage/irritation

Causes serious eye irritation.

benzyl alcohol

Route of exposure	Result	Method	Time of exposure	Species
Eye	Irritating	OECD 405	24 hour	Rabbit

bis[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Result	Method	Time of exposure	Species
Eye	Slightly irritating			

Respiratory or skin sensitisation
May cause an allergic skin reaction.

bis[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Result	Method	Time of exposure	Species	Sex
Dermal	Sensitizing	OECD 429		Mouse	F

Germ cell mutagenicity
Based on available data the classification criteria are not met.

Carcinogenicity
Based on available data the classification criteria are not met.

Reproductive toxicity
Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure
Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure
Based on available data the classification criteria are not met.

Repeated dose toxicity

benzyl alcohol

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex
Oral	NOAEL		OECD 451	400 mg/kg bw/day	103 week	Rat (Rattus norvegicus)	F/M
Inhalation (aerosols)	NOAEC	Local effects, Systemic effects	OECD 412	1072 mg/m³ of air	4 week	Rat (Rattus norvegicus)	F/M

bis[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	50 mg/kg bw/day	14 week	Rat (Rattus norvegicus)	F/M
Dermal	NOAEL	Systemic effects	OECD 411	100 mg/kg bw/day	13 week	Mouse	F/M

Aspiration hazard
Based on available data the classification criteria are not met.

11.2. Information on other hazards
not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Toxic to aquatic life with long lasting effects.

benzyl alcohol

Parameter	Method	Value	Time of exposure	Species	Environment
LC_{50}	EPA OPP 72-1	460 mg/l	96 hour	Fishes (Pimephales promelas)	Freshwater
EC_{50}	OECD 202	230 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	Freshwater
EC_{50}	OECD 201	770 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	Freshwater
NOEC	OECD 201	310 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	Freshwater
IC_{50}		390 mg/l	24 hour	Aquatic microorganisms (Nitrosomonas)	

bis[4-(2,3-epoxypropoxy)phenyl]propane

Parameter	Method	Value	Time of exposure	Species	Environment
LC_{50}		2 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC_{50}		1.8 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
ErC_{50}		>11 mg/l	72 hour	Algae (Scenedesmus subspicatus)	
NOEC		4.2 mg/l	72 hour	Algae (Scenedesmus subspicatus)	
IC_{50}		>100 mg/l	3 hour	Aquatic microorganisms	

Chronic toxicity

benzyl alcohol

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC	OECD 211	51 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	Freshwater

bis[4-(2,3-epoxypropoxy)phenyl]propane

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC		0.3 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	

12.2. Persistence and degradability

Biodegradability

benzyl alcohol

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301A	95-97 %	21 day		Easily biodegradable

bis[4-(2,3-epoxypropoxy)phenyl]propane

Parameter	Method	Value	Time of exposure	Environment	Result
					Hardly biodegradable

not available

12.3. Bioaccumulative potential

benzyl alcohol

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow		1.05				20°C

bis[4-(2,3-epoxypropoxy)phenyl]propane

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	OECD 117	3.242				25°C

Data not available.

12.4. Mobility in soil

benzyl alcohol

Parameter	Value	Environment	Surrounding temperature
Koc	15.7		20°C

bis[4-(2,3-epoxypropoxy)phenyl]propane

Parameter	Value	Environment	Surrounding temperature
Koc	445		20°C

Data not available.

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

not available

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Danger of environmental contamination, follow the applicable regulations on waste disposal. Store unused product and contaminated packaging in closed containers for waste collection and hand over for disposal to a specialized company authorized to conduct such activity. Do not pour unused product into drains. Must not be disposed of together with municipal waste. Empty packaging can be used for energy purposes in a waste incineration plant or collected in a landfill with an appropriate classification. Perfectly cleaned packaging can be recycled. The classification of waste may change depending on where it is generated.

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

16 03 05 organic wastes containing hazardous substances *

Packaging waste type code

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

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

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. (contains: 2,2-bis [4- (2,3-epoxypropoxy) phenyl] propane)

14.3. Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

Yes.

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

Road transport - ADR

Special provisions	274, 335, 375, 601
Limited quantities	5 L
Excepted quantities	E1
Packaging	
Packing instructions	P001, IBC03, LP01, R001
Special packing provisions	PP1
Mixed packing provisions	MP19
Portable tanks and bulk containers	
Guidelines	T4
Special provisions	TP1, TP29
ADR tank	
Tank code	LGBV
Vehicles for tank carriage	AT
Transport category	3
Tunnel restriction code	(-)
Special provision for	
packages	V12
loading, unloading and handling	CV13

Railway transport - RID

Special provisions	274, 335, 375, 601
Excepted quantities	E1
Packaging	
Packing instructions	P001, IBC03, LP01, R001
Special packing provisions	PP1
Mixed packing provisions	MP19
Portable tanks and bulk containers	
Guidelines	T4
Special provisions	TP1, TP29
RID Tanks	
Tank code	LGBV
Transport category	0
Special provision for	
packages	W 12
loading, unloading and handling	CW 13

Air transport - ICAO/IATA

Packaging instructions for limited amount	Y964
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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. 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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

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

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.
H302+H332	Harmful if swallowed or if inhaled.

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.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P501	Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

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
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
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
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
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
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.

The changes (which information has been added, deleted or modified)

This safety data sheet replaces version 1.0 of August 31, 2020.
Section update: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

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.