

SAFETY DATA SHEET



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

Bioetanol

Creation date 06th January 2025

Revision date

Version

2.0

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

1.1. Product identifier

Substance / mixture

Bioetanol

mixture

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

Mixture's intended use

Application in the industrial sector, household chemicals, paint and varnish industry, printing and households - for cleaning and degreasing surfaces.

Main intended use

PC-UNC Chemical products - uncategorised

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

STAPAR Sp. z o.o.

Address

Wenecja 62, Żnin, 88-400

Poland

VAT Reg No

PL5621804826

Phone

+48 (52) 561 04 82

E-mail

biuro@stapar.pl

Web address

www.stapar.pl

Competent person responsible for the safety data sheet

Name

STAPAR Sp. z o.o.

E-mail

biuro@stapar.pl

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.

Flam. Liq. 2, H225

Eye Irrit. 2, H319

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes serious eye irritation.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statements

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

Precautionary statements

P102

Keep out of reach of children.

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take action to prevent static discharges.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to properly labeled waste containers in accordance with national regulations.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

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: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	93-96	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	
Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 Registration number: 01-2119457290-43	butanone	<2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	<2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	

Notes

1 A substance for which exposure limits are set.

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 unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

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If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold.

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.

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.

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

Not expected.

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. Closed containers with the product near the fire should be cooled with water. 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

The mixture is flammable. Remove all ignition sources; provide sufficient ventilation. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Avoid contact with eyes.

6.2. Environmental precautions

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.

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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 flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Avoid contact with eyes. No smoking. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

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. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

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.

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
butanone (CAS: 78-93-3)	OEL 8 hours	600 mg/m ³
	OEL 8 hours	200 ppm
	OEL 15 minutes	900 mg/m ³
	OEL 15 minutes	300 ppm

DNEL

butanone					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers (0)	Dermal	1161 mg/kg	Chronic effects systemic		ECHA
Workers (0)	Inhalation	600 mg/m ³	Chronic effects systemic		ECHA
Consumers (0)	Inhalation	106 mg/m ³	Chronic effects systemic		ECHA
Consumers (0)	Dermal	412 mg/kg	Chronic effects systemic		ECHA
Consumers (0)	Oral	31 mg/kg bw/day			ECHA

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ethanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1900 mg/m ³	Acute effects local		
Workers	Dermal	343 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	950 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	950 mg/m ³	Acute effects local		
Consumers	Oral	87 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	206 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	114 mg/m ³	Chronic effects systemic		

propan-2-ol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	500 mg/m ³	Chronic effects systemic		
Consumers	Oral	26 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	319 mg/kg	Chronic effects systemic		
Consumers	Inhalation	89 mg/m ³	Chronic effects systemic		
Workers	Dermal	888 mg/kg	Chronic effects systemic		

PNEC

butanone			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	709 mg/l		ECHA
Oral	1000 mg/kg of food		ECHA
Water (intermittent release)	55.8 mg/l		ECHA
Drinking water	55.8 mg/l		ECHA
Marine water	55.8 mg/l		ECHA
Sea sediments	284.7 mg/kg		ECHA
Freshwater sediment	284.74 mg/kg		ECHA

ethanol			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	580 mg/l		
Water (intermittent release)	2.75 mg/l		
Oral	0.72 mg/kg of food		

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ethanol

Route of exposure	Value	Value determination	Source
Drinking water	0.96 mg/l		
Marine water	0.79 mg/l		
Freshwater sediment	3.6 mg/kg		

propan-2-ol

Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	2251 mg/l		
Soil (agricultural)	28 mg/kg		
Water (intermittent release)	140.9 mg/l		
Oral	160 mg/kg		
Drinking water	140.9 mg/l		
Marine water	140.9 mg/l		
Freshwater sediment	552 mg/kg		
Sea sediments	552 mg/kg		

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed). EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
color intensity	transparent
Odour	characteristic
Melting point/freezing point	<-114.5 °C
Boiling point or initial boiling point and boiling range	78 °C
Flammability	data not available
Lower and upper explosion limit	
Lower and upper explosion limit	
bottom	15 %
upper	3 %
Flash point	<23 °C

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Auto-ignition temperature	425 °C (etanol)
Decomposition temperature	data not available
pH	6-8 (undiluted)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	-0.35
Vapour pressure	57.26 hPa at 19.6 °C
Vapour pressure	78.7 hPa at 25 °C
Density and/or relative density	
Density and/or relative density	
Density	0.78-0.8 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid: volatile

9.2. Other information
not available

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is flammable.

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.

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.

butanone					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	6200 mg/kg		Rat (Rattus norvegicus)	F/M
Inhalation	LC ₅₀	1247 mg/kg	4 hours	Rat (Rattus norvegicus)	F/M

ethanol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	6200 mg/kg bw		Rat (Rattus norvegicus)	F/M

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ethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Dermal	LD ₅₀	20000 mg/kg		Rabbit	F/M
Inhalation	LD ₅₀	124.7 mg/l of air	4 hours	Rat (Rattus norvegicus)	F/M

propan-2-ol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation (vapor)	LC ₅₀	47.5 mg/l of air	8 hours	Rat	F/M
Oral	LD ₅₀	4400 mg/kg bw		Rat (Rattus norvegicus)	F/M
Dermal	LD ₅₀	12900 mg/kg bw		Rabbit	F/M

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

propan-2-ol

Route of exposure	Result	Method	Exposure time	Species
Eye	Serious eye damage	OECD 405		Rabbit

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

propan-2-ol

Route of exposure	Result	Exposure time	Species	Sex
	Not sensitizing		Guinea-pig	F/M

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.

propan-2-ol

Route of exposure	Parameter	Value	Result	Species	Sex
Inhalation (vapor)	NOEC	500 ppm		Rat (Rattus norvegicus)	F/M

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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

The product is not classified as hazardous to the aquatic environment.

Acute toxicity

butanone				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	3220 mg/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀	5091 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	4300 mg/l	168 hours	Algae and other aquatic plants (Scenedesmus quadricauda)	

ethanol				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	8140 mg/l	48 hours	Fish (Leuciscus idus)	
EC ₅₀	9268-14221 mg/l	48 hours	Daphnia (Daphnia magna)	
IC ₅₀	5000 mg/l	7 days	Algae and other aquatic plants (Scenedesmus quadricauda)	

propan-2-ol				
Parameter	Value	Exposure time	Species	Environment
EC ₅₀	2285 mg/l	48 hours	Daphnia (Daphnia magna)	
LC ₅₀	9640 mg/l	96 hours	Fish	Fresh water
NOEC	141 mg/l	16 days	Daphnia (Daphnia magna)	
ErC ₅₀	10500 mg/l	48 days	Algae (Pseudokirchneriella subspicata)	

12.2. Persistence and degradability

No data for the mixture.

12.3. Bioaccumulative potential

Not available.

butanone					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	3				
Log Pow	0.29				

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ethanol					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	-0.31				
BCF	3				

12.4. Mobility in soil

Not available.

butanone			
Parameter	Value	Environment	Temperature
Koc	1		

ethanol			
Parameter	Value	Environment	Temperature
Koc	1		

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

19 02 08* liquid combustible wastes containing hazardous substances

Packaging waste type code

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

15 01 02 plastic packaging

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

SECTION 14: Transport information

14.1. UN number or ID number

UN 1170

14.2. UN proper shipping name

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14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II

14.5. Environmental hazards

Not hazardous for the environment.

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.

33

UN number

1170

Classification code

F1

Safety signs

3



Tunnel restriction code

(D/E)

Air transport - ICAO/IATA

Packaging instructions passenger

353

Cargo packaging instructions

364

Marine transport - IMDG

EmS (emergency plan)

F-E, S-D

MFAG

305

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.

15.2. Chemical safety assessment

A safety assessment for the mixture is not required.

SECTION 16: Other information

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

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Guidelines for safe handling used in the safety data sheet

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P243 Take action to prevent static discharges.

P264 Wash hands and exposed parts of the body thoroughly after handling.

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P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container to properly labeled waste containers in accordance with national regulations.

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

EUH066

Repeated exposure may cause skin dryness or cracking.

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.

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

EC₅₀

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

IC₅₀

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

LC₅₀

Lethal concentration of a substance in which it can be expected death of 50% of the population

LD₅₀

Lethal dose of a substance in which it can be expected death of 50% of the population

log K_{ow}

Octanol-water partition coefficient

NOEC

No observed effect concentration

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

Eye Irrit.

Eye irritation

Flam. Liq.

Flammable liquid

STOT SE

Specific target organ toxicity - single exposure

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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

Raw material Safety Data Sheets were used to evaluate this product. Data was used in accordance with Article 9 paragraph 4 of Regulation (EC) No 1272/2008. 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.

