

FOAM CLEANER

Creation date	28th March 2023	Version	5.0
Revision date			

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

- 1.1. Product identifier**
Substance / mixture
Number
UFI
- FOAM CLEANER
mixture
R 34171
YKCH-5YDK-C001-YVKE
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Cleaning agent.
Mixture uses advised against
For professional use only.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name
Address

Identification number (CRN)
VAT Reg No
Phone
E-mail
Web address
- RETECH, s.r.o.
Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
25018205
CZ25018205
+420327596428
info@retech.cz
www.retech.com
- Competent person responsible for the safety data sheet**
Name
E-mail
- RETECH, s.r.o.
info@retech.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.

Aerosol 1, H229, H222

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

Most serious adverse physico-chemical effects

Pressurised container: May burst if heated. Extremely flammable aerosol.

- 2.2. Label elements**
Hazard pictogram

**Signal word**

Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.

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P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Supplemental information

EUH208	Contains 2,5-Furandione, reaction products with 2-ethyl-1-hexanamine and triethanolamine. May produce an allergic reaction.
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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
CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	butane (containing < 0,1 % butadiene (203-450-8))	2,5-<10	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	2,5-<10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
CAS: 111-76-2 EC: 203-905-0 Registration number: 01-2119475108-36	2-butoxyethanol	2,5-<10	Acute Tox. 4, H302+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Specific concentration limit: ATE Oral = 1200 mg/kg bw ATE Inhalation (vapor) = 3 mg/l	1
CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	2,5-<10	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8))	0,1-<1	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 110-91-8 EC: 203-815-1 Registration number: 01-2119496057-30	morpholine	0,1-<1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311+H331 Skin Corr. 1B, H314 Repr. 2, H361fd	1
CAS: 1471311-93-9 EC: 939-488-3 Registration number: 012119980932-27	2,5-Furandione, reaction products with 2-ethyl-1-hexanamine and triethanolamine	0,1-<1	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318	

Notes

1 A substance for which exposure limits are set.

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

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SECTION 4: First aid measures**4.1. Description of first aid measures**

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. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Generally the product does not irritate the skin. Wash the affected area with plenty of water, lukewarm if possible.

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. Provide medical treatment, specialized if possible.

If swallowed

Do NOT induce vomiting. Provide medical treatment.

4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

not available

If on skin

not available

If in eyes

not available

If swallowed

not available

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

not available

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

not available

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide sufficient ventilation. Pressurised container: May burst if heated. Extremely flammable aerosol. Remove all ignition sources. Use personal protective equipment for work. Keep unprotected persons away.

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

Provide sufficient ventilation. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Take action to prevent static discharges. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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. Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Content	Packaging type	Material of package
750 ml	aerosol can	FE

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	Note
2-butoxyethanol (CAS: 111-76-2)	OEL 8 hours	98 mg/m ³	Skin
	OEL 8 hours	20 ppm	
	OEL 15 minutes	246 mg/m ³	
	OEL 15 minutes	50 ppm	

European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value	Note
morpholine (CAS: 110-91-8)	OEL 8 hours	36 mg/m ³	
	OEL 8 hours	10 ppm	
	OEL 15 minutes	72 mg/m ³	
	OEL 15 minutes	20 ppm	

DNEL

2-butoxyethanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	98 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	59 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	426 mg/m ³	Acute effects systemic		
Consumers	Inhalation	147 mg/m ³	Acute effects local		
Consumers	Oral	6.3 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	1091 mg/m ³	Acute effects systemic		
Workers	Inhalation	246 mg/m ³	Acute effects local		
Consumers	Oral	26.7 mg/kg bw/day	Acute effects systemic		

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propan-2-ol

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

PNEC

2-butoxyethanol

Route of exposure	Value	Value determination	Source
Freshwater environment	8.8 mg/l		
Marine water	0.88 mg/l		
Microorganisms in sewage treatment	463 mg/l		
Freshwater sediment	34.6 mg/kg of dry substance of sediment		
Sea sediments	3.46 mg/kg of dry substance of sediment		
Soil (agricultural)	2.33 mg/kg of dry substance of soil		
Soil (agricultural)	20 mg/kg of food		

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Tightly sealed goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. Material of gloves: Nitrile rubber, NBR. Recommended thickness of the material: ≥ 0.5 mm. 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 antistatic clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter ABEK/P2.

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	gas
Colour	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	-44,5 °C
Flammability	data not available
Lower and upper explosion limit	
bottom	1,1 %
upper	12,0 %

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Flash point	-60 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	9-10 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	insoluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	23 hPa at 20 °C
Density and/or relative density	
Density	0,913 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	aerosol dispenser: spray aerosol

9.2. Other information

Ignition temperature	365 °C
Explosive properties	The product does not have explosive properties but can be explosive when blended with air.
Content of organic solvents (VOC)	19,4 %
Solid content (dry matter)	0,6 % volume
Max. VOC content in the product in its ready to use condition	176,8 g/l
Water: 78,1 %.	
Product is not selfigniting.	

SECTION 10: Stability and reactivity

10.1. Reactivity

Data 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

Data not available.

10.5. Incompatible materials

Data not available.

10.6. Hazardous decomposition products

Not developed under normal uses.

SECTION 11: Toxicological information

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

not available

Acute toxicity

Based on available data the classification criteria are not met.

2-butoxyethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	1414 mg/kg		Guinea-pig	
Dermal	LD ₅₀	2764 mg/kg		Guinea-pig	
Inhalation	LC ₅₀	>400 mg/l	7 hours	Guinea-pig	
Inhalation	LC ₀	>3.1 mg/l	1 hour	Guinea-pig	
Oral	ATE	1200 mg/kg bw			
Inhalation (vapor)	ATE	3 mg/l			

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Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	5840 mg/kg		Rat	
Dermal	LD ₅₀	13900 mg/kg		Rabbit	
Inhalation	LC ₅₀	>25 mg/l	4 hours	Rat	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

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.

Aspiration hazard

Based on available data the classification criteria 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

Acute toxicity

2-butoxyethanol

Parameter	Value	Exposure time	Species	Environment	Value determination
EC ₅₀	1550 mg/l	48 hours	Daphnia (Daphnia magna)		
LC ₅₀	1474 mg/l		Fish (Oncorhynchus mykiss)		
LC ₅₀	1300 mg/l	96 hours	Fish (Lepomis macrochirus)		Toxicity test
EC ₅₀	1840 mg/l	72 hours	Algae		Indicator of growth
EC ₀	700 mg/l	16 hours	Bacteria (Pseudomonas putida)		

propan-2-ol

Parameter	Value	Exposure time	Species	Environment	Value determination
LC ₅₀	9714 mg/l	24 hours	Invertebrates (Daphnia magna)		
LC ₅₀	9640 mg/l	96 hours	Fish (Pimephales promelas)		
EC ₅₀	>100 mg/l		Bacteria		

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Chronic toxicity

2-butoxyethanol

Parameter	Value	Exposure time	Species	Environment	Value determination
NOEC	100 mg/l	21 days	Daphnia (Daphnia magna)		Reproduction
NOEC	286 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		Indicator of growth

propan-2-ol

Parameter	Value	Exposure time	Species	Environment	Value determination
LOEC	1000 mg/l	8 days	Algae		

12.2. Persistence and degradability

The mixture is not biodegradable.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

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

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

Water hazard class 1 (German Regulation, self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

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.

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 05 04 gases in pressure containers (including halons) containing hazardous substances *

15 01 11 metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers *

Packaging waste type code

15 01 04 metallic packaging

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

SECTION 14: Transport information**14.1. UN number or ID number**

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

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14.5. Environmental hazards

No

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

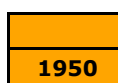
Stowage Code: SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. Segregation Code: SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

Hazard identification No.

UN number

Classification code

Safety signs



5F

2.1


Road transport - ADR

Limited quantities

1 L

Excepted quantities

E0

Transport category

2

Tunnel restriction code

(D)

Railway transport - RID
Marine transport - IMDG

EmS (emergency plan)

F-D, S-U

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. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, 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).

Additional information in accordance with Regulation (EC) no. 648/2004 on detergents, as amended

Composition according to (EC) No 648/2004, as amended: 5-<15 % aliphatic hydrocarbons, <5 % anionic surfactants, perfumes

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

More information

Directive 2012/18/EU of the European parliament and of the Council - ANNEX I - Hazard categories: P3a FLAMMABLE AEROSOLS. Qualifying quantity (tonnes) of dangerous substances for the application - of lower-tier requirements: 150 (net). Qualifying quantity (tonnes) of dangerous substances for the application of - upper-tier requirements: 500 (net).

SECTION 16: Other information

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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H311+H331	Toxic in contact with skin or if inhaled.
H302+H332	Harmful if swallowed or if inhaled.

Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

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

EUH208	Contains 2,5-Furandione, reaction products with 2-ethyl-1-hexanamine and triethanolamine. May produce an allergic reaction.
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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
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

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LC ₀	Lethal concentration of a substance in which it can be expected death of 0% of the population
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 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
Acute Tox.	Acute toxicity
Aerosol	Aerosol
Eye Dam.	Serious eye damage
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Repr.	Reproductive toxicity
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

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)

The version 5.0 replaces the SDS version from 20 May 2021. Changes were made in sections 2, 3, 8, 9, 11, 12, 13, 15 and 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.