

SENSITIVE SURFACE CLEANER

Creation date

01st August 2022

Revision date

Version

3.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

SENSITIVE SURFACE CLEANER

Substance / mixture

mixture

Number

1 35148 - 1 L; 1 35149 - 10 L

UFI

9292-4D21-800H-N2QN

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

RETECH, s.r.o.

Address

Vackova 1541/4, Praha 5 - Stodůlky, 155 00

Czech Republic

Identification number (CRN)

25018205

VAT Reg No

CZ25018205

Phone

+420327596428

E-mail

info@retech.cz

Web address

www.retech.com

Competent person responsible for the safety data sheet

Name

RETECH, s.r.o.

E-mail

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.

Flam. Liq. 2, H225

Asp. Tox. 1, H304

Eye Irrit. 2, H319

STOT SE 3, H336

Aquatic Chronic 2, H411

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

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements**Hazard pictogram****Signal word**

Danger

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Hazardous substances

 hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
 hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2 % aromatics
 propan-2-ol

Hazard statements

 H225 Highly flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P243 Take action to prevent static discharges.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/eye protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P331 Do NOT induce vomiting.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container to in accordance with national regulations.

Supplemental information

 EUH066 Repeated exposure may cause skin dryness or cracking.
 >=30 % aliphatic hydrocarbons

2.3. Other hazards

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
EC: 920-750-0 Registration number: 01-2119473851-33	hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	25-<50	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411	
EC: 919-857-5 Registration number: 01-2119463258-33	hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2 % aromatics	10-<25	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336	
CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	10-<25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
CAS: 109-87-5 EC: 203-714-2 Registration number: 01-2119664781-31	dimethoxymethane	10-<25	Flam. Liq. 2, H225	1

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	10-<25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	

Notes

1 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

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**

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. In the event of issues, find medical advice.

If on skin

Generally the product does not irritate the skin.

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. In the event of issues, find medical advice.

If swallowed

DO NOT INDUCE VOMITING! Provide medical treatment.

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

May cause drowsiness or dizziness.

If on skin

not available

If in eyes

Causes serious eye irritation.

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 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. 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. Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system.

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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. Provide sufficient ventilation. Do not flush with water or aqueous cleansing agents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. No smoking. Take precautionary measures against static discharge.

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. Keep container tightly closed. Keep cool.

Storage class

2B - Aerosols

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

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2035 mg/m ³	Systemic chronic effects		
Workers	Dermal	773 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	608 mg/m ³	Systemic chronic effects		
Consumers	Dermal	699 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	699 mg/kg bw/day	Systemic chronic effects		

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2 % aromatics

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	871 mg/m ³	Systemic chronic effects		
Workers	Dermal	208 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	185 mg/m ³	Systemic chronic effects		
Consumers	Dermal	125 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	125 mg/kg bw/day	Systemic chronic effects		

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propan-2-ol

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

8.2. Exposure controls

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Eye/face protection

Tightly sealed goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. The final selection of the glove material must be carried out on the basis of penetration times, permeation rates and degradation. Material of gloves: As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber. Recommended thickness of the material: ≥ 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Observe other recommendations of the manufacturer. Other protection: protective workwear.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter AX/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	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	42,3 °C
Flammability	Highly flammable liquid and vapour.
Lower and upper explosion limit	
bottom	0,6 %
upper	19,9 %
Flash point	-18 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	almost insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	440 hPa at 20 °C
Density and/or relative density	
Density	0,762 g/cm ³ at 20 °C
Form	liquid
data not available	

9.2. Other information

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Evaporation rate	data not available
Ignition temperature	>200 °C
Explosive properties	The product does not have explosive properties but can be explosive when blended with air.
Content of organic solvents (VOC)	100,0 %
Solid content (dry matter)	11,9 % volume
Max. VOC content in the product in its ready to use condition	762,0 g/l
Product is not selfigniting.	

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

not available

10.5. Incompatible materials

not available

10.6. Hazardous decomposition products

Unknown.

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

ethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	7060 mg/kg		Rat	
Inhalation	LC ₅₀	20000 mg/l	4 hour	Rat	

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	>5000 mg/kg		Rat	
Dermal	LD ₅₀	>2800 mg/kg		Rabbit	
Inhalation	LC ₅₀	>23 mg/l	4 hour	Rat	

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2 % aromatics

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	>5000 mg/kg		Rat	
Dermal	LD ₅₀	>5000 mg/kg		Rabbit	
Inhalation	LC ₅₀	4951 mg/m ³		Rat	

propan-2-ol

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 hour	Rat	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

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Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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

May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

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

Toxic to aquatic life with long lasting effects.

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Parameter	Value	Exposure time	Species	Environment
LL 50	>13.4 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC ₅₀	3 mg/l	48 hour	Invertebrates (Daphnia magna)	
EL 50	10-30 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2 % aromatics

Parameter	Value	Exposure time	Species	Environment
LL 50	>1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EL ₀	1000 mg/l	48 hour	Invertebrates (Daphnia magna)	
EL 50	>1000 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

propan-2-ol

Parameter	Value	Exposure time	Species	Environment
LC ₅₀	9714 mg/l	24 hour	Invertebrates (Daphnia magna)	
LC ₅₀	9640 mg/l	96 hour	Fishes (Pimephales promelas)	

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Chronic toxicity

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Parameter	Value	Exposure time	Species	Environment
NOEC	0.17 mg/l	21 day	Invertebrates (Daphnia magna)	
LOEC	0.32 mg/l	21 day	Invertebrates (Daphnia magna)	
NOELR	10 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2 % aromatics

Parameter	Value	Exposure time	Species	Environment
NOELR	100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

propan-2-ol

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

12.2. Persistence and degradability

not available

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

Ecotoxicological effects: Remark: Toxic for fish

Additional ecological information:

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

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 03 05 organic wastes containing hazardous substances *

Packaging waste type code

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

(*) - 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 1993
- 14.2. UN proper shipping name**
FLAMMABLE LIQUID, N.O.S. (METHYLAL)
- 14.3. Transport hazard class(es)**
3 Flammable liquids
- 14.4. Packing group**
II - substances presenting medium danger
- 14.5. Environmental hazards**
ENVIRONMENTALLY HAZARDOUS.
- 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

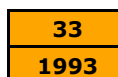
Additional information

STOWAGE CATEGORY: B

Hazard identification No.

UN number

Safety signs



3+ hazardous for the environment



Road transport - ADR

Limited quantities	1 L
Excepted quantities	E2
Transport category	3
Tunnel restriction code	(D/E)

Railway transport - RID

Marine transport - IMDG

Hazard initiator	METHYLAL
EmS (emergency plan)	F-E, S-E
Marine Pollutant	Yes

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

H225 Highly flammable liquid and vapour.

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H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

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.
P243	Take action to prevent static discharges.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container 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.
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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
DNEL	Derived no-effect level
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL ₅₀	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
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
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
LL ₅₀	Lethal Loading for 50% of tested organisms
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOEC	No observed effect concentration

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NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
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
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
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 3.0 replaces the SDS version from 11 October 2019. Changes were made in sections 11, 12, 13, 15 and 16.

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.