



SAFETY DATA SHEET

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

LEDER CLEAN

Creation date 27th November 2012
Revision date 28th April 2021 Version 2.0

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

- 1.1. Product identifier** LEDER CLEAN
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Concentrated product, designed for cleaning strongly polluted leather surfaces.
Mixture uses advised against
not available
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name TENZI Sp. z o.o.
Address Skarbimierzycze 20, Dołuje, 72-002
Poland
VAT Reg No PL8512583405
Phone +48 91 3119777
E-mail info@tenzi.pl
Web address www.tenzi.pl
- Competent person responsible for the safety data sheet**
Name technolog@tenzi.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.

Eye Dam. 1, H318

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 serious eye damage.

- 2.2. Label elements**
Hazard pictogram



Signal word
Danger

Hazardous substances
Alcohols, C11-13-branched, ethoxylated

Hazard statements
H318 Causes serious eye damage.

Precautionary statements
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

Supplemental information



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<5 % phosphates, <5 % anionic surfactants, <5 % non-ionic surfactants, <5 % soap, perfumes

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
CAS: 68439-54-3 Registration number: polimer	Alcohols, C11-13-branched, ethoxylated	<4	Acute Tox. 4, H302 Eye Dam. 1, H318	
Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 Registration number: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol	<3	Eye Irrit. 2, H319	1, 2
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43-XXXX	ethanol	<3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	
CAS: 61789-30-8 EC: 263-049-9 Registration number: Nie dotyczy	Potassium salts of coconut oil fatty acids	<1,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	
Index: 019-002-00-8 CAS: 1310-58-3 EC: 215-181-3 Registration number: 01-2119487136-33-XXXX	potassium hydroxide	<0,4	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Specific concentration limit: Skin Irrit. 2, H315: 0,5 % ≤ C < 2 % Skin Corr. 1A, H314: C ≥ 5 % Skin Corr. 1B, H314: 2 % ≤ C < 5 % Eye Irrit. 2, H319: 0,5 % ≤ C < 2 %	

Notes

- 1 Substance with a Union workplace exposure limit.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation

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

There are not any particular first aid measures required.

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.



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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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

DO NOT INDUCE VOMITING - even the induced vomiting can cause complications as in case of detergents and other foaming substances.

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 damage.

If swallowed

Corrosion of the digestion system can occur.

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. 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.

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.

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

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. 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 a tightly closed, original plastic container (high density polyethylene HDPE). Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor. DO NOT expose the product to sunlight and keep away from heat, frost, sparks, flame and source of ignition.

Storage temperature min 5 °C, max 35 °C

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 2006/15/EC

Substance name (component)	Type	Value
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	OEL 8 hours	67,5 mg/m ³
	OEL 8 hours	10 ppm
	OEL 15 minutes	101,2 mg/m ³
	OEL 15 minutes	15 ppm

DNEL

2-(2-butoxyethoxy)ethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	20 mg/kg	Systemic chronic effects	
Workers	Inhalation	67.5 mg/l	Systemic chronic effects	
Workers	Inhalation	67.5 mg/l	Local chronic effects	
Consumers	Inhalation	50.6 mg/l	Local acute effects	
Consumers	Dermal	10 mg/kg	Systemic chronic effects	
Consumers	Inhalation	3 mg/l	Systemic chronic effects	
Consumers	Oral	1.25 mg/kg	Systemic chronic effects	
Consumers	Inhalation	34 mg/l	Local chronic effects	

ethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	343 mg/kg	Systemic chronic effects	
Workers	Inhalation	950 mg/m ³	Systemic acute effects	
Workers	Dermal	1900 mg/kg	Systemic acute effects	
Consumers	Dermal	206 mg/kg	Systemic chronic effects	
Consumers	Oral	87 mg/kg	Systemic chronic effects	
Consumers	Inhalation	114 mg/m ³	Systemic chronic effects	
Consumers	Dermal	950 mg/kg	Systemic acute effects	
Consumers	Inhalation	950 mg/m ³	Systemic acute effects	

PNEC

2-(2-butoxyethoxy)ethanol

Route of exposure	Value	Determining method
Drinking water	1 mg/l	



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2-(2-butoxyethoxy)ethanol

Route of exposure	Value	Determining method
Seawater	0.1 mg/l	
Freshwater sediment	4 mg/kg	
Sea sediments	0.4 mg/kg	
Soil (agricultural)	0.4 mg/kg	
Microorganisms in wastewater treatment plants	200 mg/l	
Oral	56 mg/kg	

ethanol

Route of exposure	Value	Determining method
Soil (agricultural)	0.63 mg/kg	
Microorganisms in wastewater treatment plants	580 mg/l	
Seawater	0.79 mg/l	
Freshwater sediment	3.6 mg/kg	
Drinking water	0.96 mg/l	

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Contaminated skin should be washed thoroughly.

Respiratory protection

Under regular circumstances it is not necessary.

Thermal hazard

Data 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
Color	white
Odour	characteristic of the composition used for
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	13 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	data not available
Relative density	1,039 g/cm ³ (+-) 0,020

9.2. Other information



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not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

2-(2-butoxyethoxy)ethanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD ₅₀	2410 mg/kg		Mouse			SDS
Dermal	LD ₅₀	2764 mg/kg		Rabbit			SDS

Alcohols, C11-13-branched, ethoxylated

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD ₅₀	>300-2000 mg/kg		Rat (Rattus norvegicus)		Based on evidence	karta charakterystyki
Dermal	LD ₅₀	>2000 mg/kg		Rat (Rattus norvegicus)		Based on evidence	karta charakterystyki

ethanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD ₅₀	6.2-15 g/l		Rat (Rattus norvegicus)			SDS
Oral	LDL0	6000 mg/kg		Human			SDS
	LDL0	7060 mg/kg		Rat (Rattus norvegicus)			SDS
Inhalation	LC ₅₀	<50 mg/l	4 hour	Rat (Rattus norvegicus)			SDS

potassium hydroxide

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD ₅₀	273 mg/kg		Rat			



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Skin corrosion/irritation

Based on available data the classification criteria are not met.

Alcohols, C11-13-branched, ethoxylated

Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Not irritating		Rabbit	Based on evidence	karta charakterystyki

Potassium salts of coconut oil fatty acids

Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Irritating				karta charakterystyki

Serious eye damage/irritation

Causes serious eye damage.

Alcohols, C11-13-branched, ethoxylated

Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Irritating, Serious eye damage		Rabbit	Based on evidence	karta charakterystyki

Potassium salts of coconut oil fatty acids

Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Irritating				karta charakterystyki

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Alcohols, C11-13-branched, ethoxylated

Route of exposure	Result	Time of exposure	Species	Sex	Determining method	Source
	No effect		Guinea-pig (Cavia aperea f. porcellus)		Based on evidence	karta charakterystyki

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Alcohols, C11-13-branched, ethoxylated

Result	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
No effect					Based on evidence	karta charakterystyki

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.



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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

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Data for the mixture are not available.

2-(2-butoxyethoxy)ethanol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC ₅₀		1300 mg/l		Fishes (Lepomis macrochirus)			SDS
EC ₅₀		>100 mg/l		Aquatic invertebrates (Daphnia magna)			SDS
EC ₅₀	OECD 201	>100 mg/l		Algae (Scenedesmus subspicatus)			SDS
EC 10	OECD 209	>1995 mg/l					SDS

Alcohols, C11-13-branched, ethoxylated

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC ₅₀	OECD 203	>1-10 mg/kg	96 hour	Fishes (Oncorhynchus mykiss)		Based on evidence	karta charakterystyki
EC ₅₀	OECD 202	>1-10 mg/l	48 hour	Daphnia (Daphnia magna)		Based on evidence	karta charakterystyki
EC ₅₀	OECD 201	>1-10 mg/l	72 hour	Algae (Desmodesmus subspicatus)		Based on evidence	karta charakterystyki

12.2. Persistence and degradability

Biodegradability

Alcohols, C11-13-branched, ethoxylated

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
	OECD 301A	>70 %	28 day		Based on evidence	Easily biodegradable	karta charakterystyki
	OECD 301B	>60 %	28 day		Based on evidence	Easily biodegradable	karta charakterystyki



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Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

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

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.

Waste type code

07 06 04 other organic solvents, washing liquids and mother liquors *

Packaging waste type code

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

Not subject to ADR

14.2. UN proper shipping name

not available

14.3. Transport hazard class(es)

not available

14.4. Packing group

not available

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 available



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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.

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

2-(2-butoxyethoxy)ethanol

Restriction	Conditions of restriction
55	<p>1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.</p> <p>2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.</p> <p>3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows:</p> <p>"Do not use in paint spraying equipment".</p>

15.2. Chemical safety assessment

Chemical safety assessment has not been carried out for the mixture.

potassium hydroxide: A Chemical Safety Assessment has been carried out.

Sodium cumene sulfonate: A Chemical Safety Assessment has been carried out

diethylene glycol monobutyl ether: A Chemical Safety Assessment has been carried out.

Alcohols, C11-13-branched, ethoxylated: the manufacturer has performed a chemical safety assessment

Ethyl alcohol: the manufacturer has performed a chemical safety assessment

Potassium salts of coconut oil fatty acids: the product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

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

H225 Highly flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

Guidelines for safe handling used in the safety data sheet

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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



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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
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	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
NOEL	No observed effect level
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
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation

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



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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)

General update

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.