



SAFETY DATA SHEET

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

DS-1

Creation date	26th March 2013	Version	3.0
Revision date	19th March 2021		

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

1.1. Product identifier

DS-1

Substance / mixture

mixture

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

Mixture's intended use

Concentrated bactericidal and fungicidal (in the range of yeast-like fungi) product, designed for disinfection surfaces and technological lines inside food industry department, that also includes surfaces with direct contact with food and accessories in the medical areas. Permission for dealing bactericidal product nr 5402/13.

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.

Flam. Liq. 3, H226

Skin Irrit. 2, H315

Eye Dam. 1, H318

STOT SE 3, H336

Aquatic Acute 1, H400

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

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statements

H226

Flammable liquid and vapour.

H315

Causes skin irritation.



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H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P405	Store locked up.

Supplemental information

<5 % cationic surfactants

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
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25-XXXX	propan-2-ol (active substance)	50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
Index: 612-131-00-6 CAS: 7173-51-5 EC: 230-525-2 Registration number: 01-2119945987-15-XXXX	Didecyldimethylammonium chloride (DDAC) (active substance)	1,6	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411	
CAS: 68424-85-1 EC: 270-325-2 Registration number: 01-2119965180-41	Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) (active substance)	1,6	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	
CAS: 85409-23-0 EC: 287-090-7 Registration number: nie dotyczy	C12-C14-Alkyl(ethylbenzyl) dimethylammonium chloride (ADEBAC (C12-C14)) (active substance)	1,6	Acute Tox. 4, H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.



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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. Rinse skin with water/shower.

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

Inhaling vapours can cause corrosion of the breathing system. May cause drowsiness or dizziness.

If on skin

Causes skin irritation.

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. 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

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

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

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 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. Prevent contact with skin and eyes. No smoking. Use only non-sparking tools. Wash hands and exposed parts of the body thoroughly after handling. 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 precautionary measures against static discharge. 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

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.



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DNEL

Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) (active substance)

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	3.96 mg/m ³	Systemic chronic effects	
Workers	Dermal	5.7 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	1.64 mg/m ³	Systemic chronic effects	
Consumers	Dermal	3.4 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	3.4 mg/kg bw/day	Systemic chronic effects	

C12-C14-Alkyl(ethylbenzyl)dimethylammonium chloride (ADEBAC (C12-C14)) (active substance)

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	1 mg/m ³	Local chronic effects	
Consumers	Inhalation	1 mg/m ³	Local chronic effects	

Didecyldimethylammonium chloride (DDAC) (active substance)

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	18.2 mg/m ³	Systemic chronic effects	
Workers	Dermal	8.6 mg/kg bw/day	Systemic chronic effects	

propan-2-ol (active substance)

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

PNEC

Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) (active substance)

Route of exposure	Value	Determining method
Drinking water	0.0009 mg/l	
Seawater	0.00009 mg/l	
Water (intermittent release)	0.00016 mg/l	
Freshwater sediment	0.267 mg/kg of dry substance	
Sea sediments	0.0267 mg/kg of dry substance	

C12-C14-Alkyl(ethylbenzyl)dimethylammonium chloride (ADEBAC (C12-C14)) (active substance)

Route of exposure	Value	Determining method
Seawater	0.000042 mg/l	
Microorganisms in wastewater treatment plants	0.21 mg/l	
Freshwater sediment	6.81 mg/kg	
Sea sediments	0.681 mg/kg	
Soil (agricultural)	1.36 mg/kg	

Didecyldimethylammonium chloride (DDAC) (active substance)

Route of exposure	Value	Determining method
Drinking water	0.002 mg/l	



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Didecyldimethylammonium chloride (DDAC) (active substance)

Route of exposure	Value	Determining method
Seawater	0.0002 mg/l	
Water (intermittent release)	0.00029 mg/l	
Microorganisms in wastewater treatment plants	0.595 mg/l	
Freshwater sediment	2.82 mg/kg of dry substance	
Sea sediments	0.282 mg/kg of dry substance	
Soil (agricultural)	1.4 mg/kg of dry substance	

propan-2-ol (active substance)

Route of exposure	Value	Determining method
Drinking water	140.9 mg/l	
Seawater	140.9 mg/l	
Freshwater sediment	552 mg/kg	
Sea sediments	552 mg/kg	
Soil (agricultural)	28 mg/kg	

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. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

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

Skin protection

Contaminated skin should be washed thoroughly.

Respiratory protection

It is not needed.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Color	colourless
Odour	characteristic - alcoholic
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	34 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	8 (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	0,898 g/cm ³ (+-) 0,020

9.2. Other information



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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. 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.

Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) (active substance)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD ₅₀	OECD 401	>300-2000 mg/kg		Rat (Rattus norvegicus)		karta charakterystyki

Didecyldimethylammonium chloride (DDAC) (active substance)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LC ₅₀		>300-2000 mg/kg		Rat		SDS

propan-2-ol (active substance)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD ₅₀		>2000 mg/kg				SDS
Skin	LD ₅₀		>2000 mg/kg				SDS
Inhalation	LC ₅₀		>5 mg/l				SDS

Skin corrosion/irritation

Causes skin irritation.

Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) (active substance)

Route of exposure	Result	Time of exposure	Species	Source
	Corrosive		Rabbit	karta charakterystyki

Serious eye damage/irritation

Causes serious eye damage.



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Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) (active substance)

Route of exposure	Result	Method	Time of exposure	Species	Sex	Source
	Negative	OECD 406		Guinea-pig		karta charakterystyki

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) (active substance)

Result	Method	Time of exposure	Specific target organ	Species	Sex	Source
Negative	OECD 471			Rat		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.

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

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. 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

Very toxic to aquatic life.

Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) (active substance)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC ₅₀		>0.1-1 mg/l	96 hour	Fishes		karta charakterystyki
EC ₅₀		>0.01-0.1 mg/kg	48 hour	Daphnia (Daphnia magna)		karta charakterystyki
IC ₅₀		>0.01-0.1 mg/l	72 hour	Algae (Selenastrum capricornutum)		karta charakterystyki



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Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) (active substance)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC	OECD 201	>0.001-0.01 mg/l		Algae (Pseudokirchneriella subcapitata)		karta charakterystyki

Didecyldimethylammonium chloride (DDAC) (active substance)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC ₅₀	OECD 203	>0.1-1 mg/l	96 hour	Fishes (Danio rerio)		SDS
EC ₅₀	OECD 202	>0.01-0.1 mg/l	48 hour	Daphnia (Daphnia magna)		SDS
EC ₅₀	OECD 201	>0.01-0.1 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		SDS
NOEC		>0.01-0.1 mg/l	72 hour	Algae (Raphidocelis subcapitata)		SDS
NOEC	OECD 211	>0.01-0.1 mg/l	21 day	Daphnia (Daphnia magna)		SDS

propan-2-ol (active substance)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC ₅₀		>100 mg/l	48 hour	Fishes (Leuciscus idus)		SDS
EC ₅₀		>100 mg/l	48 hour	Daphnia (Daphnia magna)		SDS
EC ₅₀		>100 mg/l	72 hour	Algae (Scenedesmus subspicatus)		SDS

12.2. Persistence and degradability

Biodegradability

Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)) (active substance)

Parameter	Method	Value	Time of exposure	Environment	Result	Source
	OECD 301D				Easily biodegradable	karta charakterystyki

Didecyldimethylammonium chloride (DDAC) (active substance)

Parameter	Method	Value	Time of exposure	Environment	Result	Source
	OECD 301D				Easily biodegradable	SDS

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



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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. Decision 2000/532/EC establishing a list of wastes, 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

UN 1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (propan-2-ol)

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

Yes

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

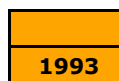
not available

Additional information

Hazard identification No.

UN number

Safety signs



3+hazardous for the environment





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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.

15.2. Chemical safety assessment

Chemical safety assessment has not been carried out for the mixture. Propan-2-ol: the manufacturer has performed a chemical safety assessment Alkyl (C12 -C14) dimethyl(ethylbenzyl)ammonium chloride (ADEBAC (C12 -C14)) (active substance): no data available Didecyldimethylammonium chloride (DDAC) (active substance): the manufacturer has performed a chemical safety assessment Alkyl (C12-16) dimethyl benzyl ammonium chloride (ADBAC/BKC (C12-16)): the manufacturer has performed a chemical safety assessment

SECTION 16: Other information

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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.
P405	Store locked up.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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
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



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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
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
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)

General update

More information

Classification procedure - calculation method. Classification procedure - based on flash point test results.

Statement



SAFETY DATA SHEET

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

DS-1

Creation date	26th March 2013	Version	3.0
Revision date	19th March 2021		

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.