

SAFETY DATA SHEET

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

Skeljungur Ruduvokvi -18

Creation date 19th February 2021
Revision date Version 2.0

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

1.1. Product identifier
Substance / mixture Skeljungur Ruduvokvi -18
UFI mixture
A820-30WX-000E-1MHT
Other mixture names VENOL Płyn do spryskiwaczy -18

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

Mixture's intended use

Windscreen washer fluid.

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

Main intended use

PC-CLN-17.8 Windscreen/windshield wash fluid

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name	VENOL MOTOR OIL Spółka z ograniczoną odpowiedzialnością
Address	Lodowa 107, Łódź, 93-232 Poland
Identification number (CRN)	364695098
VAT Reg No	PL9820376499
Phone	+42 649 15 68 w.29
E-mail	venol@venol.pl
Web address	venol.de

Competent person responsible for the safety data sheet

Name	Laboratorium VENOL MOTOR OIL
E-mail	laboratorium@venol.pl

1.4. Emergency telephone number

National Health Service (NHS) 111

Emergency telephone number abroad

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

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

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour.

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Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to accordance with all national regulations.

Supplemental information

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.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	25-30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	
Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 Registration number: 01-2119457290-43-XXXX	butanone	0,3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	0,3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
CAS: 34590-94-8 EC: 252-104-2 Registration number: 01-2119450011-60-XXXX	(2-methoxymethylethoxy)propanol	<0,1	not classified as dangerous	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Move the victim to fresh air, keep him warm and calm. Contact a doctor if disturbing symptoms occur.

If on skin

Take off contaminated clothing. Wash contaminated skin with plenty of soap and water, and then rinse with water. In case of disturbing symptoms, consult a doctor. Wash clothes before reuse.

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If in eyes

Protect non-irritated eye, remove contact lenses. Rinse contaminated eyes thoroughly with water for at least 10 minutes. with open eyelids. Avoid strong water stream - risk of cornea damage. Consult a doctor if disturbing symptoms occur.

If swallowed

Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor in case of disturbing symptoms.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

In the case of high concentration of vapors, the product may cause headaches, dizziness, balance disorders, symptoms similar to those after ingestion.

If on skin

For a prolonged contact possible dryness, skin cracking and chronic dermatitis.

If in eyes

Redness, tearing, burning.

If swallowed

Nausea, vomiting, problems with balance and coordination, visual disturbances, speech disorders.

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

Decision on the method of the helping procedure shall be made by a physician after a thorough assessment of the victim's condition.

More information

Other relevant information is 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

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

Wear general protective equipment, typical in case of fire. Do not stay in the fire-endangered area without appropriate chemical-resistant clothing and self-contained breathing apparatus. Flammable liquid and vapor. Cool endangered tanks with water spray from a safe distance. Vapors are heavier than air, can spread along the floor to distant sources of ignition and pose a risk of flashback. Do not allow the extinguishing water to enter the sewage system, surface water and groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For people not belonging to the personnel eliminating the consequences of the accident: limit the access of bystanders to the accident area until the completion of appropriate cleaning operations. In case of large spills, isolate the endangered area. Avoid contact with skin and eyes. Do not inhale vapors. Provide adequate ventilation. Keep away all sources of ignition, extinguish open fire, do not smoke. Use personal protection measures.

For persons decomposing the consequences of an accident: make sure that the removal of the failure and its effects is performed only by trained personnel. Avoid contact with skin and eyes. Use personal protection measures.

6.2. Environmental precautions

Do not dispose to drains, surface and ground water. For release of bigger amounts of the mixture take measures to prevent spreading in the environment. Notify relevant rescue services.

6.3. Methods and material for containment and cleaning up

Place the damaged packaging in a replacement packaging. Collect the leak with non-flammable materials that absorb liquids (e.g. sand, earth, diatomaceous earth, vermiculite) and place in closed containers. Treat the collected material as waste. Clean and ventilate the contaminated place.

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

Work in accordance with health and safety rules. Do not eat, drink or smoke while working. Avoid eye and skin contact. Do not inhale vapours and aerosols. Wash your hands before a break and after finish of work. Ensure proper ventilation. Remove ignition sources - do not smoke. Do not use sparking tools. Containers not in use keep closed tight. Keep contaminated/soaked clothing away from heat and ignition sources.

7.2. Conditions for safe storage, including any incompatibilities

Store only in a cool and well ventilated place. Do not store together with food, groceries and animal feed. Avoid direct sunlight, heat and ignition sources. Do not store together with incompatible substances (see section 10).

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.

United Kingdom of Great Britain and Northern Ireland

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value	Note
ethanol (CAS: 64-17-5)	WEL 8h	1920 mg/m ³	
	WEL 8h	1000 ppm	
butanone (CAS: 78-93-3)	WEL 8h	600 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
	WEL 8h	200 ppm	
	WEL 15min	899 mg/m ³	
	WEL 15min	300 ppm	
propan-2-ol (CAS: 67-63-0)	WEL 8h	999 mg/m ³	
	WEL 8h	400 ppm	
	WEL 15min	1250 mg/m ³	
	WEL 15min	500 ppm	
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	WEL 8h	308 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

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United Kingdom of Great Britain and Northern Ireland

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value	Note
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	WEL 8h	50 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

Biological limit values

United Kingdom of Great Britain and Northern Ireland

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Name	Parameter	Value	Tested material	Time of sampling
butanone (CAS: 78-93-3)	Butan-2-one	70 µmol/l	Urine	End of shift

8.2. Exposure controls

Observe general safety and health protection rules. Do not eat, drink or smoke while working. Wash your hands thoroughly before a break and after finish of work. Avoid skin and eye contact. Provide general and/or local ventilation at a work place in order to maintain the hazardous agent concentration in the air below the set values of exposure limits.

Eye/face protection

It is not needed.

Skin protection

It is not required for proper product handling. It is recommended to use protective gloves made of, for example, 0.7 mm thick nitrile or butyl rubber with a penetration time > 240 min. in case of prolonged or repeated contact with the product.

Respiratory protection

Not required with proper ventilation. In case of failure or exposure to high concentration of vapors in the air, exceeding the permissible NDS values, use respiratory protection - a mask with an organic vapor absorber.

Thermal hazard

Data not available.

Environmental exposure controls

Avoid discharges to the environment, do not dispose to drains. Possible emissions from ventilation systems and process equipment should be checked for their conformity with the environmental protection law requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Color	pink
color intensity	light
Odour	according to fragrance
Melting point/freezing point	-18 °C
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	>30 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	7 (undiluted)
Kinematic viscosity	not determined
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available

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Density and/or relative density
Density 0,9585 - 0,9595 g/cm³ at 20 °C
Relative vapour density data not available
Particle characteristics data not available
Form liquid

9.2. Other information

Surface tension: max. 33 mN / m

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactive product. Does not undergo hazardous polymerization. See also section 10.3 - 10.5.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Hydrogen may be released by reaction with light metals. Ethanol contained in the product may react dangerously with alkaline earth metals, fluorine, acetylene chloride, acid anhydrides and organic acids. Product vapors may form explosive mixtures with air.

10.4. Conditions to avoid

Avoid exposure to direct sunlight, heat and ignition sources.

10.5. Incompatible materials

Avoid contact with strong oxidants and light metals.

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-methoxymethylethoxy)propanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD ₅₀		9510 mg/kg		Rabbit	
Inhalation	LC ₅₀		3.35 mg/l	7 hour	Rat (Rattus norvegicus)	

butanone

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀		3460 mg/kg bw		Rat (Rattus norvegicus)	
Dermal	LD ₅₀		>10 ml/kg bw		Rabbit	

ethanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation (vapor)	LC ₅₀		124.7 mg/l	4 hour	Rat	
Oral	LD Lo		7000 mg/kg bw		Rat	
Inhalation (vapor)	LC ₅₀		116.9 mg/l	4 hour	Rat	
Inhalation (vapor)	LC ₅₀		133.8 mg/l	4 hour	Rat	

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propan-2-ol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation (vapor)	LC ₅₀	OECD 403	>10000 ppm	6 hour	Rat	F/M
Dermal	LD ₅₀		16.4 ml/kg bw		Rabbit	
Oral	LD ₅₀		5.84 mg/kg bw		Rat (Rattus norvegicus)	

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.

ethanol

Route of exposure	Result	Method	Time of exposure	Species
	Irritating			Rabbit

propan-2-ol

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

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

propan-2-ol

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

Mutagenicity

propan-2-ol

Result	Time of exposure	Specific target organ	Species	Sex
Negative without metabolic activation, Negative with metabolic activation		Ovary	Guinea-pig	F/M

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

ethanol

Route of exposure	Parameter	Value	Result	Species	Sex
Oral			Indeterminate	Rat	

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Reproductive toxicity

Based on available data the classification criteria are not met.

ethanol

Effect	Parameter	Value	Result	Species	Sex
Effects on fertility	NOAEL	>16000 ppm	No effect	Rat	
	NOAEL	5200 mg/kg/24hour	Indeterminate	Rat	

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

ethanol

Route of exposure	Parameter	Value	Time of exposure	Specific target organ	Result	Species	Sex
Inhalation	LOAEL	2.6 mg/l	30 min	Nervous system	Drowsiness, Dizziness	Human	
Inhalation	LOAEL	9.4 mg/l		Lungs	Indeterminate	Human	

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

propan-2-ol

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

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

Based on the available data the mixture does not meet the criteria for classification.

(2-methoxymethylethoxy)propanol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
LC ₅₀	OECD 203	>1000 mg/l	96 hour	Fishes (<i>Poecilia reticulata</i>)		
LC ₅₀	OECD 202	1919 mg/l	48 hour	Daphnia (<i>Daphnia magna</i>)		
LC ₅₀	OECD 202	>1000 mg/l	96 hour	Aquatic invertebrates (<i>Crangon crangon</i>)		
LC ₅₀		2070 mg/l	48 hour	Crustaceans (<i>Acartia tonsa</i>)		
ErC ₅₀	OECD 201	>969 mg/l	96 hour	Algae (<i>Pseudokirchneriella subcapitata</i>)		

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(2-methoxymethylethoxy)propanol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
EC ₅₀		4168 mg/l	18 hour	Bacteria (Salmonella typhimurium)		

butanone

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
LC ₅₀		2993 mg/l	96 hour	Fishes (Pimephales promelas)		
EC ₅₀		308 mg/l	48 hour	Daphnia (Daphnia magna)		
EC ₅₀		1972 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		

ethanol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
EC ₀		3.9 g/l	200 hour	Fishes		Experimentally
EC ₅₀		>10000 mg/l	48 hour	Daphnia		Experimentally
IC ₅₀		8800 mg/l	96 hour	Algae		Experimentally

propan-2-ol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
EC ₅₀		>10000 mg/l	48 hour	Daphnia (Daphnia magna)		
LC ₅₀		9640 mg/l	96 hour	Fishes	Freshwater	
EC ₅₀		1800 mg/l	7 day	Algae (Scenedesmus quadricauda)		

Chronic toxicity

(2-methoxymethylethoxy)propanol

Parameter	Value	Time of exposure	Species	Environment	Determining method
NOEC	>0.5 mg/l	22 day	Daphnia (Daphnia magna)		

ethanol

Parameter	Value	Time of exposure	Species	Environment	Determining method
LC ₅₀	9248 mg/l	48 hour	Invertebrates		Experimentally
NOEC	250 mg/l	120 hour	Fishes (Oncorhynchus mykiss)		Experimentally
NOEC	1000 mg/l	120 hour	Fishes		Experimentally

12.2. Persistence and degradability

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Biodegradability

(2-methoxymethylethoxy)propanol

Parameter	Value	Time of exposure	Environment	Result
	75 %	28 day		Easily biodegradable

The mixture is biodegradable.

12.3. Bioaccumulative potential

(2-methoxymethylethoxy)propanol

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	OECD 301F	<100				
Log Pow		0.006				

Data not available.

12.4. Mobility in soil

(2-methoxymethylethoxy)propanol

Parameter	Value	Environment	Surrounding temperature
Log Kow	0.28		

Product mobile in soil. The mobility of the components of the mixture depends on their hydrophilic properties and hydrophobic and abiotic and biotic conditions of the soil, including its structure, climatic conditions and soil organisms (mainly bacteria, fungi, algae, invertebrates).

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

Data not available.

12.7. Other adverse effects

The mixture is not classified as hazardous to the ozone layer. The possibility of other harmful effects of the individual components of the mixture on the environment should be considered (eg endocrine disrupting capacity, influence on the increase of global warming).

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. The waste code should be given at the place of its production.

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.

SECTION 14: Transport information

14.1. UN number or ID number

UN 1170

14.2. UN proper shipping name

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14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

The mixture does not pose a threat to the environment according to transport regulations.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Additional information

Hazard identification No.	30
UN number	1170
Classification code	F1
Safety signs	3



Air transport - ICAO/IATA

Packaging instructions passenger	355
Cargo packaging instructions	366

Marine transport - IMDG

EmS (emergency plan)	F-E, S-D
MFAG	305

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. 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 for the mixture is not required.

SECTION 16: Other information

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

H-	not classified as dangerous
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to accordance with all national regulations.

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P233 Keep container tightly closed.

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

EUH066 Repeated exposure may cause skin dryness or cracking.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. 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
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
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
STOT SE	Specific target organ toxicity - single exposure
Without classification	Without classification

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

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Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

Section 1-16

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.