



# Safety Data Sheet

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

## ENGINE FLUSH

**TEC-2000 LTD.**

P. O. BOX 285, Hitchin,  
HERTS., SG4 9WQ, U.K.

info@TEC-2000.co.uk

PH: 01462-433 660

FAX: 01462-674 468

MOB: 07831-105 386

Version Number:19

Revision date: 08-Jun-2022

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

- 1.1 Product identifier** TEC-2000 ENGINE FLUSH  
Substance / mixture mixture
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Cleaner for lubrication system of internal combustion engines.  
**Main intended use**  
PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)  
**Mixture uses advised against**  
The product should not be used in ways other than those referred in Section 1.
- 1.3 Details of the supplier of the safety data sheet**  
**Manufacturer:**  
Name or trade name TEC-2000 LIMITED  
Address PO Box 285, Hitchin, Hertfordshire, SG4 9WQ, United Kingdom  
VAT Reg No GB111112414  
Phone +44 (0) 1462 433 660  
E-mail [mike@tec-2000.co.uk](mailto:mike@tec-2000.co.uk)  
Web address [www.tec-2000.co.uk](http://www.tec-2000.co.uk)  
**Competent person responsible for the safety data sheet**  
Name TEC-2000 LIMITED  
E-mail [mike@tec-2000.co.uk](mailto:mike@tec-2000.co.uk)
- 1.4 Emergency telephone number**  
0044 (Ø) 7831 105386 (24hrs)  
NHS Direct: 111  
UK-National Poisons Information Service (NPIS): 0344 892 0111 (healthcare professionals only).  
Ireland - National Poisons Information Centre (NPIC): (01) 809 2566 (healthcare professionals only).

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**  
The mixture is classified as dangerous
- Flam. Liq. 3, H226  
Asp. Tox. 1, H304  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
STOT SE 3, H335, H336  
Repr. 2, H361d  
STOT RE 2, H373  
Aquatic Chronic 2, H411
- 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 be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure. Suspected of damaging the unborn child. Causes skin irritation.  
Causes serious eye irritation. Toxic to aquatic life with long lasting effects

### 2.2 Label elements

Hazard pictograms:



**Signal word:**

Danger

**Hazardous substances**

Petroleum Light aromatic C9

toluene

**Hazard statements**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

**Precautionary statements:**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a doctor
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.
P312	Call a POISON CENTER/doctor if you feel unwell
P321	Specific treatment (see additional first aid instructions on this label).
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to according to local/by regional/according to national/by international regulations

**Supplemental information**

&gt;=30 % aromatic hydrocarbons, &lt;5 % non-ionic surfactants

**Requirements for child-resistant fastenings and tactile warning of danger**

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

**2.3 Other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Chemical characterization**

Mixture.

**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: 64742-95-6 EC: 918-668-5 Registration number: 01-2119455851-35-XXXX	Petroleum Light aromatic C9	50-100	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411	

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51-XXXX	toluene	10-<20	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Repr. 2, H361d STOT RE 2, H373 Aquatic Chronic 3, H412	2, 3
CAS: 51-03-6 EC: 200-076-7 Registration number: 01-2119537431-46-XXXX	1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-	<10	Acute Tox. 3, H311  Aquatic Chronic 2, H411	
CAS: 68515-88-8 EC: 271-114-8 Registration number: 01-2120263350-66-XXXX	Pentene, 2,4,4-trimethyl-, sulfurized	<2,5	not classified as dangerous	
CAS: 27247-96-7 EC: 248-363-6 Registration number: 01-2119539586-27-XXXX	2-ethylhexyl nitrate	<2,5	Acute Tox. 4, H302+H312+H332 Aquatic Chronic 2, H411	
Index: 006-025-00-3 CAS: 28434-00-6 EC: 249-013-5	(S)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R,3R)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate	<1	Acute Tox. 4, H302+H332  Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	1
Index: 649-424-00-3 CAS: 64742-94-5 EC: 265-198-5 Registration number: 01-2119510128-50-XXXX	Solvent naphtha (petroleum), heavy arom.	<1	Asp. Tox. 1, H304 Resp. Sens. 1, H334	
Index: 601-052-00-2 CAS: 91-20-3 EC: 202-049-5 Registration number: 01-2119561346-37-XXXX	naphthalene	<0,25	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	2

**Notes**

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Substance with a Union workplace exposure limit
- 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**

Do not perform artificial respiration without self-protection (e.g. a mask). 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**

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

**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 or 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. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

**If swallowed**

If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Ensure medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

Cough, headache. May cause respiratory irritation. May cause drowsiness or dizziness.

**If on skin**

Causes skin irritation.

**If in eyes**

Causes serious eye irritation.

**If swallowed**

Irritation, nausea.

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

Symptomatic treatment.

**SECTION 5: Firefighting Measures****5.1 Extinguishing media****Suitable extinguishing agents:**

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. Use a self-contained breathing apparatus and full-body protective clothing. 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 mist/vapours/spray. Prevent contact with skin and eyes.

**6.2 Environmental precautions:**

Do not allow to enter drains. 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.

**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 mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Obtain special instructions before use. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. 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 action to prevent static discharges. Avoid release to the environment.

**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. Store locked up. Keep container tightly closed. Keep cool.

**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.

**European Union****Commission Directive 2006/15/EC**

Substance name (component)	Type	Value	Note
toluene (CAS: 108-88-3)	OEL 8 hours	192 mg/m <sup>3</sup>	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	384 mg/m <sup>3</sup>	
	OEL 15 minutes	100 ppm	

**European Union****Commission Directive 91/322/EEC**

Substance name (component)	Type	Value	Note
naphthalene (CAS: 91-20-3)	OEL 8 hours	50 mg/m <sup>3</sup>	
	OEL 8 hours	10 ppm	

**DNEL**

2-ethylhexyl nitrate

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	1 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	0.35mg/m <sup>3</sup>	Systemic chronic effects		
Workers	Dermal	0.044 mg/cm <sup>2</sup>	Local acute effects		

**PNEC**

2-ethylhexyl nitrate

Route of exposure	Value	Value determination	Source
Drinking water	0.8 µg/l		
Seawater	0.08 µg/l		
Freshwater sediment	0.74 µg/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. 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.

**Skin protection**

Hand protection: Protective gloves resistant to the product. (eg. PVC gloves, Nitrile rubber, NBR) EN ISO 374-1. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Contaminated skin should be washed thoroughly.

**Respiratory protection**

Mask with a filter against organic vapours in a poorly ventilated environment.

**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
Colour	green
Odour	after solvents
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	110 °C
Flammability	data not available

Lower and upper explosion limit	
bottom	0,7 %
upper	10 %
Flash point	37 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available

**9.2 Other information:**

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:**

Strong oxidizing agents. Water.

**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. Hydrogen sulphide.

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

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. No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	7181 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>5.9 mg/l	4 hour	Rat	

2-ethylhexyl nitrate

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Dermal	LD <sub>50</sub>	>4820 mg/kg		Rabbit	
Oral	LD <sub>50</sub>	>9640 mg/kg		Rat	

naphthalene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	490 mg/kg		Rat	
Dermal	LD <sub>50</sub>	5000 mg/kg		Rabbit	

toluene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	5000 mg/kg		Rat	
Dermal	LD <sub>50</sub>	12124 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	5320 mg/l	4 hour	Mouse	

**Skin corrosion/irritation**

Causes skin irritation.

**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**

Suspected of damaging the unborn child.

**Toxicity for specific target organ - single exposure**

May cause respiratory irritation. May cause drowsiness or dizziness.

**Toxicity for specific target organ - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

May be fatal if swallowed and enters airways

**11.2 Information on other hazards**

not available

**SECTION 12: Ecological information****12.1 Acute toxicity****Toxicity****Acute toxicity**

Toxic to aquatic life with long lasting effects.

Petroleum light aromatic C9

Parameter	Value	Exposure time	Species	Environment
EC <sub>50</sub>	3.2 mg/l	48 hour	Daphnia	

**12.2 Persistence and degradability:****Biodegradability**

Petroleum light aromatic C9

Parameter	Value	Exposure time	Environment	Result
	>60 %	28 day		Biodegradable

The mixture is biodegradable.

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

**SECTION 14: Transport Information****14.1 UN Number or ID number**

UN 1993

**14.2 UN proper shipping name**

FLAMMABLE LIQUID, N.O.S. (Petroleum light aromatic C9, toluene)

**14.3 Transport hazard class(es)**

3 Flammable liquids

**14.4 Packing group**

III - substances presenting low danger

**14.5 Environmental hazards:**

not relevant

**14.6 Special precautions for user**

not available

**14.7 Maritime transport in bulk according to IMO instruments**

not relevant

**Additional information:****Hazard identification No.****UN number****Classification code**

F1

**Safety signs**

3+ hazardous for the environment

**Road transport - ADR**

Special provisions 274, 601

Limited quantities 5 L

Excepted quantities E1

**Packaging**

Packing instructions P001, IBC03, LP01, R001

Mixed packing provisions MP19

**Portable tanks and bulk containers**

Guidelines T4

Special provisions TP1, TP29

**ADR tank**

Tank code LGBF

Vehicles for tank carriage FL

Transport category 3

Tunnel restriction code (D/E)

**Special provision for**

packages V12

operation S2

**Railway transport - RID**

Special provisions 274, 601

Excepted quantities E1

**Packaging**

Packing instructions P001, IBC03, LP01, R001

Mixed packing provisions MP19

**Portable tanks and bulk containers**

Guidelines T4

Special provisions TP1, TP29

**RID Tanks**

Tank code LGBF

Transport category 0

**Special provision for**

packages W 12

**Marine transport - IMDG**

EmS (emergency plan) F-E, S-E

MFAG 310

**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**  
toluene

Restriction	Conditions of restriction
48	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

**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.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.
H302+H332	Harmful if swallowed or if inhaled.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.

### Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P271	Use only outdoors or in a well-ventilated area.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P331	Do NOT induce vomiting.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to according to local/by regional/according to national/by international regulations.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P321	Specific treatment (see additional first aid instructions on this label).
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.

### 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 <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances

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 <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
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)
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
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 2.0 replaces the SDS version from 06.08.2021. Change of product composition.

**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.