

ESD CLEANER

Creation date	29th August 2023	Version	1.0
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
Substance / mixture ESD CLEANER
mixture
Number 1 35421
UFI 6STT-M01T-P81W-RG6C
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Cleaning agent.
Mixture uses advised against
For professional use only.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name RETECH, s.r.o.
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (CRN) 25018205
VAT Reg No CZ25018205
Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com
- Competent person responsible for the safety data sheet**
Name RETECH, s.r.o.
E-mail info@retech.cz
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Irrit. 2, H315
Eye Dam. 1, H318
Aquatic Chronic 2, H411

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. Causes skin irritation. Toxic to aquatic life with long lasting effects.

- 2.2. Label elements**

Hazard pictogram**Signal word**

Danger

Hazardous substances

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C10-14-alkyl ethers, phosphates

Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

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Precautionary statements

P264	Wash hands and exposed parts of the body thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear eye protection.
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 doctor.
P391	Collect spillage.

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 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: 68585-36-4	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C10-14-alkyl ethers, phosphates	10-<15	Skin Irrit. 2, H315 Eye Dam. 1, H318	
Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 Registration number: 01-2119475104-44	2-(2-butoxyethoxy)ethanol	10-<15	Eye Irrit. 2, H319	1, 2
CAS: 66455-15-0	Alcohols, C10-14, ethoxylated	5-<10	Eye Irrit. 2, H319	
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	1-<5	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	butanone	<0,2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 10 % STOT SE 3, H336: C > 20 %	1
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7	isopropanol	<0,2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 10 % STOT SE 3, H336: C > 20 %	

Notes

- 1 A substance for which exposure limits are set.
- 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.

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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

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.

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.

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

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

Inhaling vapours can cause corrosion of the breathing system.

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. Use a self-contained breathing apparatus and full-body protective clothing. 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. 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.

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6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. 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 concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. 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 tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
European Union
Commission Directive 2000/39/EC

Substance name (component)	Type	Value
butanone (CAS: 78-93-3)	OEL 8 hours	600 mg/m ³
	OEL 8 hours	200 ppm
	OEL 15 minutes	900 mg/m ³
	OEL 15 minutes	300 ppm

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	Value determination	Source
Workers	Inhalation	67.5 mg/m ³	Chronic effects local		
Workers	Inhalation	101.2 mg/m ³	Acute effects local		
Consumers	Oral	6.25 mg/kg bw/day	Chronic effects systemic		

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ethanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	380 mg/m ³	Chronic effects systemic		
Workers	Dermal	8238 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	114 mg/m ³	Chronic effects systemic		

PNEC

2-(2-butoxyethoxy)ethanol			
Route of exposure	Value	Value determination	Source
Freshwater environment	1.1 mg/l		
Marine water	0.11 mg/l		
Freshwater sediment	4.4 mg/kg of dry substance of sediment		
Sea sediments	0.44 mg/kg of dry substance of sediment		
Soil (agricultural)	0.32 mg/kg of dry substance of soil		
Food chain	56 mg/kg of food		
Water (intermittent release)	11 mg/l		

ethanol			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.96 mg/l		
Marine water	0.79 mg/l		
Microorganisms in sewage treatment	580 mg/l		
Freshwater sediment	3.6 mg/kg of dry substance of sediment		
Sea sediments	2.9 mg/kg of dry substance of sediment		
Soil (agricultural)	0.63 mg/kg of dry substance of soil		
Food chain	380 mg/kg of food		

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

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

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Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

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	pink
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	100 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	62 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	2.56 (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	0.985 g/cm ³
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

9.2. Other information

not available

SECTION 10: Stability and reactivity**10.1. Reactivity**

The substance is non-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**

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.

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Acute toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2-(2-butoxyethoxy)ethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	2410 mg/kg		Mouse	
Dermal	LD ₅₀	OECD 402	2764 mg/kg		Rabbit	
Inhalation (vapor)	LC ₅₀		>29 ppm	2 hours	Rat	

Alcohols, C10-14, ethoxylated

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>2000 mg/kg		Rat	

butanone

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		3300 mg/kg		Rat	
Dermal	LD ₅₀		6400-8000 mg/kg		Rabbit	

ethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		6200 mg/kg		Rat	
Dermal	LD ₅₀		20000 mg/kg		Rabbit	
Inhalation	LC ₅₀		5.9 mg/l	6 hours	Rat	

isopropanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		5480 mg/kg		Rat	
Dermal	LD ₅₀		12800 mg/kg		Rabbit	
Inhalation	LD ₅₀		72.6 mg/l	4 hours	Rat	

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C10-14-alkyl ethers, phosphates

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>2000 mg/kg		Rat	

Skin corrosion/irritation

Causes skin irritation.

Alcohols, C10-14, ethoxylated

Route of exposure	Result	Exposure time	Species
	Local effects		Rabbit

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C10-14-alkyl ethers, phosphates

Route of exposure	Result	Exposure time	Species
	Irritating		Rabbit

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Serious eye damage/irritation

Causes serious eye damage.

Alcohols, C10-14, ethoxylated			
Route of exposure	Result	Exposure time	Species
	Irritating		Rabbit

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C10-14-alkyl ethers, phosphates			
Route of exposure	Result	Exposure time	Species
	Irritating		Rabbit

Respiratory or skin sensitisation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Acute toxicity

2-(2-butoxyethoxy)ethanol						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₅₀	OECD 203	1300 mg/l	96 hours	Fish (Lepomis macrochirus)		Static system

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2-(2-butoxyethoxy)ethanol

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EC ₅₀		>100 mg/l	48 hours	Daphnia (Daphnia magna)		Nominal concentration, Static system
EC ₅₀	OECD 201	>100 mg/l	96 hours	Algae (Selenastrum capricornutum)		Nominal concentration, Static system, Indicator of growth
EC ₁₀	OECD 209	>1995 mg/l	30 minutes	Microorganisms	Activated sludge	Nominal concentration

Alcohols, C10-14, ethoxylated

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EC ₅₀		>1-10 mg/l	72 hours	Algae		
EC ₅₀		>1-10 mg/l	48 hours	Daphnia		
LC ₅₀		>1-10 mg/l	96 hours	Fish (Oncorhynchus mykiss)		

butanone

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₅₀		2993 mg/l	96 hours	Fish (Pimephales promelas)		
EC ₅₀		308 mg/l	48 hours	Daphnia (Daphnia magna)		
EC ₅₀		4300 mg/l	7 days	Algae (Scenedesmus quadricauda)		

ethanol

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₅₀		11200 mg/l	24 hours	Fish (Oncorhynchus mykiss)		
LC ₅₀		8140 mg/l	48 hours	Fish (Leuciscus idus)		
LC ₅₀		15.3 g/l	96 hours	Fish (Pimephales promelas)		
EC ₅₀		10800 mg/l	24 hours	Daphnia (Daphnia magna)		

isopropanol

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₅₀		8970-9280 mg/l	48 hours	Fish (Leuciscus idus)		
LC ₅₀		9640 mg/l	96 hours	Fish (Pimephales promelas)		
EC ₅₀		>10000 mg/l	24 hours	Invertebrates (Artemia salina)		
EC ₅₀		>1000 mg/l	24 hours	Invertebrates (Daphnia magna)		

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Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C10-14-alkyl ethers, phosphates						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EC ₅₀		>1-10 mg/l	72 hours	Algae		
EC ₅₀		>1-10 mg/l	48 hours	Daphnia		
EC ₅₀		>1-10 mg/l	96 hours	Fish (Oncorhynchus mykiss)		

12.2. Persistence and degradability

Data for the mixture are not available. The mixture is biodegradable.

Biodegradability

2-(2-butoxyethoxy)ethanol					
Parameter	Method	Value	Exposure time	Environment	Result
BSK	OECD 301C	80-90 %	28 days		Easily biodegradable

12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

12.4. Mobility in soil

No data are available for either the mixture or the components.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

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 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C10-14-alkyl ethers, phosphates; 2-(2-butoxyethoxy)ethanol; alcohols, C10-14, ethoxylated)

14.3. Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

14.4. Packing group

III - substances presenting low danger

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14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.

90

UN number

3082

Classification code

M6

Safety signs

9+hazardous for the environment



Air transport - ICAO/IATA

Packaging instructions passenger

964

Cargo packaging instructions

964

Marine transport - IMDG

EmS (emergency plan)

F-A, S-F

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 as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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>

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Additional information in accordance with Regulation (EC) no. 648/2004 on detergents, as amended

15- <30 % anionic surfactants, 5- <15 % non-ionic surfactants

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P264	Wash hands and exposed parts of the body thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear eye protection.
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 doctor.
P391	Collect spillage.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
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Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
BOD	Biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₁₀	Concentration of a substance when it is affected 10% of the population
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
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
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
log K _{ow}	Octanol-water partition coefficient
OEL	Occupational Exposure Limits

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PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
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.

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.