

WHITEBOARD-CLEANER

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

1.1 - Product identifier

Trade name/designation WHITEBOARD-CLEANER

Chemical name

Product-type Mixture

UFI: KG40-G0NY-H005-73JK

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

Relevant identified uses

- Consumer uses: Private households (= general public = consumers)
- PC35: Washing and cleaning products (including solvent based products).

Uses advised against

- No information available.

1.3 - Details of the supplier of the safety data sheet

Berec AG
Industriestrasse 53
8625 Gossau ZH Switzerland
Telephone : +41 (0)44 936 70 80
info@berec.ch

1.4 - Emergency telephone number

Swiss Toxicological Information Centre
CH-8032 ZÜRICH
Tel.: +41 (0) 44 251 51 51
National emergency call: 145

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3	Flammable liquid and vapour. - Category 3
Eye Irrit. 2	Eye irritation - Category 2

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word : Warning

Hazard pictograms



Hazard statements

H226	Flammable liquid and vapour
H319	Causes serious eye irritation

Precautionary statements

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use Carbon dioxide (CO ₂)/dry powder/alcohol-resistant foam/extinguishing powder for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.
EUH-phrases	: None

Regulation (EC) No. 648/2004 (Detergents regulation)

2.3 - Other hazards

PBT substances

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

vPvB substances

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Other hazards which do not result in classification - No data available.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No.	%	Class(es)	Information on the substance
ethanol, ethyl alcohol	CAS No. : 64-17-5 Index No. : 603-002-00-5 EC No. : 200-578-6	>= 3 - <= 10	Flam. Liq. 2 - H225	(a)
propan-2-ol, isopropyl alcohol, isopropanol INCI: ISOPROPYL ALCOHOL	CAS No. : 67-63-0 Index No. : 603-117-00-0 EC No. : 200-661-7	>= 3 - <= 10	Eye Irrit. 2 - H319 Flam. Liq. 2 - H225 STOT SE 3 - H336	(a)
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve INCI: BUTOXYETHANOL	CAS No. : 111-76-2 Index No. : 603-014-00-0 EC No. : 203-905-0	>= 3 - < 5	Acute Tox. 3 Inhalation - H331 Acute Tox. 4 Oral - H302 Eye Irrit. 2 - H319 Skin Irrit. 2 - H315	ATE oral 1200 ATE Inhalation Vapor 3 (a) (b)

(a) Substance contributing to the classification

(b) Substance with exposure limite value

- For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation - Provide fresh air.

Following skin contact - Wash immediately with: Water
- When in doubt or if symptoms are observed, get medical advice.

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After eye contact - In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion - If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
- Do NOT induce vomiting.

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

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - Causes eye irritation.

Symptoms and effects - After ingestion - No information available.

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

- Treat symptomatically.
- In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media - ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media - Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture - Flammable liquid and vapour.

Hazardous decomposition products - No information available.

5.3 - Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Move undamaged containers from immediate hazard area if it can be done safely.
- Do not allow run-off from fire-fighting to enter drains or water courses.
- Move undamaged containers from immediate hazard area if it can be done safely.
- Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel

- Use personal protection equipment.
- Provide adequate ventilation.
- Remove all sources of ignition.
- Remove persons to safety.

For emergency responders

- Do not allow uncontrolled discharge of product into the environment.
- Use only non-sparking tools.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Wear personal protection equipment (refer to section 8).

6.2 - Environmental precautions

- Do not allow uncontrolled discharge of product into the environment.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- No information available.

Methods and material for cleaning up

- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

Inappropriate techniques

- No information available.

6.4 - Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- Avoid: Eye contact
- Vapours can form explosive mixtures with air.
- Do not pierce or burn, even after use.
- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
- Take precautionary measures against static discharges.
- Use only antistatically equipped (spark-free) tools.
- Use only outdoors or in a well-ventilated area.

Advices on general occupational hygiene

- Draw up and observe skin protection programme.
- Wash hands before breaks and after work.
- When using do not eat, drink, smoke, sniff.

7.2 - Conditions for safe storage, including any incompatibilities

- Storage class Flammable liquids
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed in a cool, well-ventilated place.
- Keep locked up and out of reach of children.
- Do not store together with: Combustible substance

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7.3 - Specific end use(s)

- See section 1.2 of the SDS.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

IOELV TWA mg/m ³ (UE)	98 mg/m ³ Skin
IOELV TWA ppm (UE)	20 ppm Skin
IOELV STEL mg/m ³ (UE)	246 mg/m ³ Skin
IOELV STEL ppm (UE)	50 ppm Skin

DNEL / PNEC

ethanol, ethyl alcohol (64-17-5)

Type	Value	User	Effect
DNEL long-term oral (repeated)	87 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	1900 mg/m ³	Workers	Local
DNEL acute inhalative	950 mg/m ³	Consumers	Local
DNEL long-term inhalative	950 mg/m ³	Workers	Systemic
DNEL long-term inhalative	114 mg/m ³	Consumers	Systemic
DNEL long-term dermal	343 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	206 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0.96 mg/l		
PNEC aquatic, marine water	0.79 mg/l		
PNEC aquatic, intermittent release	2.75 mg/l		
PNEC sediment, freshwater	3.6 mg/kg		
PNEC sediment, marine water	2.9 mg/kg		
PNEC soil	0.63 mg/kg		
PNEC Secondary Poisoning	380 mg/kg		
PNEC sewage treatment plant (STP)	580 mg/l		

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

Type	Value	User	Effect
DNEL short-term oral (acute)	51 mg/kg	Consumers	Systemic
DNEL long-term oral (repeated)	26 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	178 mg/m ³	Consumers	Systemic
DNEL acute inhalative	1000 mg/m ³	Workers	Systemic
DNEL long-term inhalative	500 mg/m ³	Workers	Systemic
DNEL long-term inhalative	89 mg/m ³	Consumers	Systemic
DNEL long-term dermal	888 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	319 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	140.9 mg/l		
PNEC aquatic, marine water	140.9 mg/l		
PNEC aquatic, intermittent release	140.9 mg/l		
PNEC sediment, freshwater	552 mg/kg		
PNEC sediment, marine water	552 mg/kg		
PNEC soil	28 mg/kg		
PNEC Secondary Poisoning	160 mg/kg		
PNEC sewage treatment plant (STP)	2251 mg/l		

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

Type	Value	User	Effect
DNEL short-term oral (acute)	26.7 mg/kg	Consumers	Systemic
DNEL long-term oral (repeated)	6.3 mg/kg bw/day	Consumers	Systemic

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DNEL acute inhalative	1091 mg/m ³	Workers	Systemic
DNEL acute inhalative	246 mg/m ³	Workers	Local
DNEL acute inhalative	426 mg/m ³	Consumers	Systemic
DNEL acute inhalative	147 mg/m ³	Consumers	Local
DNEL long-term inhalative	98 mg/m ³	Workers	Systemic
DNEL long-term inhalative	59 mg/m ³	Consumers	Systemic
PNEC aquatic, freshwater	8.8 mg/l		
PNEC aquatic, marine water	0.88 mg/l		
PNEC aquatic, intermittent release	26.4 mg/l		
PNEC sediment, freshwater	34.6 mg/kg		
PNEC sediment, marine water	3.46 mg/kg		
PNEC Secondary Poisoning	0.02 mg/kg		
PNEC sewage treatment plant (STP)	463 mg/l		

8.2 - Exposure controls

Appropriate engineering controls

- If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

- Eye glasses with side protection
- DIN EN 166
- In case of prolonged or frequently repeated skin contact:
- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
- Rubber protective gloves. NBR (Nitrile rubber). Nitrile, thickness>0.3mm Penetration time>480min EN374.
- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
- Use only respiratory protection equipment with CE-symbol including four digit test number.
- Wear anti-static footwear and clothing

Environmental exposure controls

- No information available.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	colourless	<u>Odour</u>	characteristic

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Odour threshold	No data available
pH	5
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	37.5 °C Closed cup
Evaporation rate	No data available
flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	0.98 g/cm ³
Solubility (Water)	No data available
Solubility (Ethanol)	No data available
Solubility (Acetone)	No data available
Solubility (Organic solvents)	No data available
Log KOC	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

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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 - Based on available data, the classification criteria are not met.

STOT-single exposure - Based on available data, the classification criteria are not met.

STOT-repeated exposure - Based on available data, the classification criteria are not met.

Aspiration hazard - Based on available data, the classification criteria are not met.

11.2 - Information on other hazards

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

Toxicity : Substances

ethanol, ethyl alcohol (64-17-5)	
LC50 96 hr fish	11200 mg/l Pimephales promelas (fathead minnow)
ErC50 algae	275 mg/l Chlorella vulgaris OECD 201
NOEC chronic fish	250 mg/l Pimephales promelas (fathead minnow)
NOEC chronic algae	11.5 mg/l Chlorella vulgaris
NOEC chronic other aquatic plants	9.6 mg/l
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
EC50 48 hr crustacea	9714 mg/l Daphnia magna OECD 202

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LC50 96 hr fish	9640 mg/l OECD 203
ErC50 algae	> 100 mg/l Scenedesmus subspicatus
NOEC chronic fish	> 1000 mg/l Danio rerio
NOEC chronic crustacea	> 1000 mg/l
NOEC chronic algae	1800 mg/l
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
EC50 48 hr crustacea	1550 mg/l
LC50 96 hr fish	1474 mg/l
ErC50 algae	> 1000 mg/l
NOEC chronic fish	100 mg/l
NOEC chronic crustacea	100 mg/l
NOEC chronic algae	88 mg/l

12.2 - Persistence and degradability

Mixture

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

Substances

ethanol, ethyl alcohol (64-17-5)	
Chemical oxygen demand (COD)	930 mg/g < V < 1670 mg/g
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
% of biodegradation in 28 days	95 %
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
% of biodegradation in 28 days	90.4 %

12.3 - Bioaccumulative potential

Mixture

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

Substances

ethanol, ethyl alcohol (64-17-5)	
Log KOC	-0.31
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
Bioconcentration factor (BCF)	0.994
Log KOC	0.05
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
Log KOC	0.81

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12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 - Endocrine disrupting properties

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	<ul style="list-style-type: none">- Dispose of waste according to applicable legislation.- Handle contaminated packages in the same way as the substance itself.- Detergents containing hazardous substances
<u>Sewage disposal</u>	- No information available.
<u>Special precautions for waste treatment</u>	- No information available.
<u>Community or national or regional provisions</u>	- Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
<u>Waste codes / waste designations according to Regulation 2014/955/UE</u>	20 01 29* - detergents containing hazardous substances

SECTION 14: Transport information

14.1 - UN number or ID number

<u>UN number (ADR)</u>	:	UN1993
<u>UN number (RID)</u>	:	UN1993
<u>UN number (ADN)</u>	:	Not applicable
<u>UN number (IMDG)</u>	:	UN1993
<u>UN number (IATA)</u>	:	Not applicable

14.2 - UN proper shipping name

<u>UN proper shipping name (ADR)</u>	:	FLAMMABLE LIQUID, N.O.S.
<u>UN proper shipping name (RID)</u>	:	FLAMMABLE LIQUID, N.O.S.
<u>UN proper shipping name (IMDG)</u>	:	FLAMMABLE LIQUID, N.O.S.

14.3 - Transport hazard class(es)

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ADR Transport hazard class(es) : 3

ADR Classification code: : F1

Pictograms



3

Transport hazard class(es) (RID) : 3

Pictograms



3

Transport hazard class(es) (IMDG) : 3

Pictograms



3

14.4 - Packing group

Packing group : III

Packing group (RID) : III

Packing group (IMDG) : III

14.5 - Environmental hazards

Environmental hazards : No

Marine pollutant : No

14.6 - Special precautions for user

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ADR

<u>ADR Classification code:</u>	:	F1
<u>ADR Special provisions</u>	:	274+601
<u>ADR Limited quantity (LQ)</u>	:	5L
<u>ADR Excepted quantities</u>	:	E1
<u>ADR Packing instructions</u>	:	P001 IBC03 LP01 R001
<u>ADR Special packing provisions</u>	:	
<u>ADR Mixed packing provisions</u>	:	MP19
<u>Instructions for portable tanks and bulk containers</u>	:	T4
<u>Special provisions for portable tanks and bulk containers</u>	:	TP1 TP29
<u>ADR tank code</u>	:	LGBF
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	FL
<u>ADR Transport category</u>	:	3
<u>ADR Tunnel restriction code</u>	:	D/E
<u>ADR Special provisions loading, unloading and handling</u>	:	
<u>Special provisions - Packages</u>	:	V12
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	S2
<u>ADR Hazard identification number (Kemler No.)</u>	:	30

RID

<u>Special provisions</u>	:	274+601
<u>Limited quantity (LQ)</u>	:	5L
<u>Excepted quantities</u>	:	E1

IMDG

<u>Special provisions</u>	:	223 274 955
<u>Limited quantity (LQ)</u>	:	5 L
<u>Excepted quantities</u>	:	E1
<u>Packing instructions</u>	:	LP01 P001
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	IBC03
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	T4
<u>Special provisions for portable tanks and bulk containers</u>	:	TP1 TP29
<u>EmS codes</u>	:	F-E, S-E
<u>Stowage and handling</u>	:	Category A
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

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Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

- COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto. The Regulation has been published in the Official Journal of the European Union No. L 168/5 on 21 June, 2006;
- COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. The Regulation has been published in the Official Journal of the European Union No. L 156, on 14 June, 2016;
- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);
- On 16 December 2008 the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of chemical substances and mixtures was undersigned. The said Regulation amended and repealed the directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006 (the REACH Regulation). The Regulation has been published in the Official Journal of the European Union No. L 353, volume 51 on 31 December, 2008;
- REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents (OJ L 104/1, 8.4.2004, p.001-0035);
- Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);
- The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).
- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
- P5c Flammable liquids
- If special processing conditions (e.g. high pressure or high temperature) can lead to accident hazards, this product is assigned to the risk category P5b.
- Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
- Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
2	19/12/2025		Indication of changes: Section: 1.1, 1.2, 2.3, 3.2, 4.1, 4.3, 5.2, 5.3, 6.1, 6.2, 6.4, 7.1, 7.2, 7.3, 8.2, 10.3, 10.4, 13.1, 15.1, 16.1.
1	10/01/2023		

Abbreviations and acronyms - ICAO: International Civil Aviation Organization

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- EC50: Effective concentration of the substance that causes adverse effects in 50% of test animals.
- IATA: International Air Transport Association.
- DNEL: Derived no-effect level.
- LOEC: Lowest Observed Effect Concentration.
- LOEL: Lowest Observed Adverse Effect Level.
- EC No: European Community number
- IMDG: International Maritime Dangerous Goods.
- CAS No.: Chemical Abstracts Service number.
- NOEC: No Observed Effect Concentration.
- NOEL: No observable effect level.
- OEL: Occupational exposure limit.
- LC50: Lethal Concentration to 50 % of a test animals.
- PBT: Persistent, Bioaccumulative and Toxic.
- ADR: The Agreement concerning the International Carriage of Dangerous Goods by Road
- PNEC: Predicted no-effect concentration.
- RID: International Carriage of Dangerous Goods by Rail.
- STEL: Short-term exposure limit
- ATE: Acute Toxicity Estimate.
- TWA: Time weighted average
- LD50: Lethal Dose to 50% of a test animals.
- vPvB: very Persistent and very Bioaccumulative.

Data sources: European Chemicals Agency (ECHA)
European Chemicals Bureau (ECB)
International Laboratories Organization (ILO)

Evaluation methods Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Texts of the regulatory sentences

Acute Tox. 3 Inhalation	Acute toxicity (inhalative) - Category 3
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Eye Irrit. 2	Eye irritation - Category 2
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
Flam. Liq. 3	Flammable liquid and vapour. - Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
Skin Irrit. 2	Irritation, Category 2
STOT SE 3	STOT-single exposure - Category 3 (H336)

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*** **