

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade name: 4503635 / EZ-125 / LEAK LOCK

UFI CODE: TMPV-60MP-100F-MXKK

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

Product Use: Pipe joint sealant, Gasket seal, Threadlocker

Uses advised against: No further relevant information available.

1.3 Details of the Supplier of the safety data sheet

REFCO Manufacturing Ltd. Industriestrasse 11 | 6285 Hitzkirch Switzerland

Tel. +41 41 919 72 82 | Fax +41 41 919 72 83

E-Mail: info@refco.ch

Original Safety Data Sheet:

Highside Chemicals, Inc.

11114 Reichold Road

Gulfport, MS 39503 USA

Phone: (228) 896-9220

1.4 Emergency Telephone Number

Swiss Toxicological Information Centre, CH 8028 Zürich

Notruf 145 oder +41 44 251 51 51

Nicht dringende Anrufe: +41 44 251 66 66

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

F; Highly flammable

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 - Highly flammable liquid and vapour.

Hazard Overview

Information concerning particular hazards for human and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label Elements

Labelling according to Directive 1272/2008/EC



EC Symbols:

Signal word:

Danger

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

Hazard statements: H225 Highly flammable liquid and vapour.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.
 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.
 P280: Wear protective gloves/protective clothing/eye protection/protective footwear.
 P370+P378: In case of fire: Use ABC powder extinguisher to put it out.
 P403+P235: Store in a well-ventilated place. Keep cool.
 P501: Dispose of the contents/containers according to the local, state and federal regulations.

Supplemental label information:

EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Hazards not otherwise classified (HHNOC - PHNOC):

In Accordance With: 29 CFR 1910.1200 / WHMIS 2015

Not applicable (N/A)

In Accordance With: COMMISSION REGULATION (EU) 2020/878

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the criteria.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Non applicable

3.2 Mixtures:

In Accordance With: COMMISSION REGULATION (EU) 2020/878

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identifikator	Chemische Bezeichnung / Klassifizierung	Konzentration
CAS: 67-63-0 EC: 200-661-7 Index: 603-117-00-0 REACH: 01-2119457558-25-XXXX	Propan-2-ol⁽¹⁾ Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	2.5 - <10%
CAS: 14808-60-7 EC: 238-878-4 Index: Non-applicable REACH: Non-applicable	Quartz (1% <RCS <10%)⁽²⁾ Regulation 1272/2008 H373 - Warning	<1 %
CAS: 109-86-4 EC: 203-713-7 Index: 603-011-00-4 REACH: 01-2119494721-33-XXXX	2-methoxyethanol⁽²⁾ Regulation 1272/2008 Acute Tox. 4: H302+H312+H332; Flam. Liq. 3: H226; Repr. 1B: H360FD - Danger	<1%

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

⁽²⁾ Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

4. FIRST AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

In case of consumption, seek immediate medical assistance showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not applicable (N/A)

5. FIRE FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment.

Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

In Accordance With: 29 CFR 1910.1200

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

In Accordance With: COMMISSION REGULATION (EU) 2020/878 / WHMIS 2015

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

For accidental releases in excess of reportable quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

In Accordance With: COMMISSION REGULATION (EU) 2020/878 / WHMIS 2015

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation and/or standards of 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Because the product is a flammable liquid, storage should meet the requirement of 29 CFR 1910.106, Flammable and Combustible Liquids Code.

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems (COMMISSION REGULATION (EU) 2020/878 as defined in Directive 2014/34/EC (ATEX 100)) and with the minimum requirements for protecting the security and health of workers (COMMISSION REGULATION (EU) 2020/87 under the selection criteria of Directive 1999/92/EC (ATEX 137)). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities: In Accordance With: 29 CFR 1910.1200

A.- Technical measures for storage

Minimum Temp.: 41 °F

Maximum Temp.: 86 °F

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.2 Conditions for safe storage, including any incompatibilities:

In Accordance With: COMMISSION REGULATION (EU) 2020/878 / WHMIS 2015

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Occupational Exposure Limits

Identification	Occupational exposure limits		
2-Propanol CAS: 67-63-0 EC: 200-661-7	MAK (8h) MAK (STEL)	200 ppm 400 ppm	500 mg/m ³ 1000 mg/m ³
2-methoxyethanol CAS: 109-86-4 EC: 203-713-7	MAK (8h) MAK (STEL)	1 ppm 8 ppm	3.2 mg/m ³ 25.6 mg/m ³

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

Biological limit values:

TRGS 903 - Biologische Grenzwerte (BGW)

Identification	BGW	Parameter	Sampling time
2-Propanol CAS: 67-63-0 EC: 200-661-7	25 mg/L	Acetone (Urine)	End of shift at end of workweek
2-methoxyethanol CAS: 109-86-4 EC: 203-713-7	15 mg/g (Null)	Methoxyessigsäure	End of shift at end of workweek

DNEL (Workers):

Identifizierung		Shorttime exposure		Longtime exposure	
		Systemic	Local	Systemic	Local
2-Propanol CAS: 67-63-0 EC: 200-661-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	888 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	500 mg/m ³	Non-applicable
2-methoxyethanol CAS: 109-86-4 EC: 203-713-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0.22 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0.31 mg/m ³	Non-applicable

DNEL (General population):

Identifizierung		Shorttime exposure		Longtime exposure	
		Systemic	Local	Systemic	Local
2-Propanol CAS: 67-63-0 EC: 200-661-7	Oral	Non-applicable	Non-applicable	26 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	319 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	89 mg/m ³	Non-applicable
2-methoxyethanol CAS: 109-86-4 EC: 203-713-7	Oral	Non-applicable	Non-applicable	0.11 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable

PNEC:

Identification				
2-Propanol CAS: 67-63-0 EC: 200-661-7	SPT	2251 mg/L	Fresh water	140.9 mg/L
	Soil	28 mg/kg	Marine water	140.9 mg/L
	Intermittent	140.9 mg/L	Sediment (Fresh water)	552 mg/kg
	Oral	0.16 g/kg	Sediment (marine water)	552 mg/kg
2-methoxyethanol CAS: 109-86-4 EC: 203-713-7	SPT	1000 mg/L	Fresh water	10 mg/L
	Soil	1.87 mg/kg	Marine water	1 mg/L
	Intermittent	94 mg/L	Sediment (Fresh water)	36.8 mg/kg
	Oral	0.0073 g/kg	Sediment (marine water)	3.68 mg/kg

8.2 Appropriate engineering controls / Exposure Controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment (where applicable with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425). For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland


Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.


In Accordance With: COMMISSION REGULATION (EU) 2020/878

Pictogram	PPE	Labeling	CEN-Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	CE CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration..

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.



D.-Gesichts und Augenschutz

In Accordance With: COMMISSION REGULATION (EU) 2020/878

Pictogram	PPE	Labeling	CEN-Standard	Remarks
 Mandatory Faceprotection	Panoramic glasses against splash/projections.	CE CAT II	EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodyprotection

In Accordance With: COMMISSION REGULATION (EU) 2020/878

Pictogram	PPE	Labeling	CEN-Standard	Remarks
 Mandatory complete body protection	Antistatic and fireproof protective clothing	CE CAT III	EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2002 EN ISO 14116:2015 EN 1149-5:2018	Limited protection against flames.
 Mandatory foot protection	Safety footwear with antistatic and heat resistant properties	CE CAT III	EN ISO 13287:2020 EN ISO 20345:2011	Replace boots at any sign of deterioration.

F.- Additional emergency measures


Notfallmassahme	Vorschriften	Markierung	CEN-Vorschriften	Vorschriften
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Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

 <p>Emergency shower</p>	<p>ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011</p>	 <p>Eyewash stations</p>	<p>EN 166:2002 EN ISO 4007:2018</p>	<p>DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011</p>
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Environmental exposure controls:
In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 27,8 % weight

V.O.C. density at 20 °C: 349,45 kg/m³ (349,45 g/L)

Average carbon number: 2.1

Average molecular weight: 47,47 g/mol

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Pourable paste
Color	Colorless.
Odour	Alcohol-like.
Odour threshold	Not determined.
pH value	Not determined.
Melting point / freezing point	Undetermined.
Initial Boiling Point and Boiling range	172 °F / 78 °C
Flash point	61 °F / 16 °C
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.
Explosion limit - lower	3.5 Vol %
Explosion limit - upper	15.0 Vol %
Vapor pressure	59 hPa @ 20°C
Vapor density	Not determined.
Density	1,3 g/cm ³
Solubility (water)	Fully miscible.
Partition coefficient (n-octanol/water)	Not determined.
Auto-ignition temperature	797 °F / 425 °C
Decomposition temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Oxidising properties	Not oxidising

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

10. STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Conact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Coumbustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological Effects

The experimental information related to the toxicological properties of the product itself is not available
Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: acetaldehyde (2B); Ethanol (1); propan-2-ol (3); Talc (3); Quartz (1 %< RCS < 10%) (1); Titanium dioxide (2B)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not applicable (N/A)

Toxicological data

Identification	Species	Results
Propan-2-ol CAS: 67-63-0 EC: 200-661-7		
Oral LD50	Rat	5280 mg/kg
Inhalation LC50	Rat	72.6 mg/l (4h)
Dermal LD50	Rat	12800 mg/kg
2-methoxyethanol CAS: 109-86-4 EC: 203-713-7		
Oral LD50	Rabbit	890 mg/kg
Dermal LD50	Rabbit	1340 mg/kg

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

11.2 Information on other hazards:

Endocrine disrupting properties

The product does not meet the criteria regarding its endocrine disrupting properties.

Other information

Not applicable

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The product contains materials that are harmful to the environment.

Acute Toxicity

Identification	Concentration	Species	Genus
Propan-2-ol	LC50 9640 mg/L (96h)	Pimephales promelas	Fish
CAS: 67-63-0	EC50 13299 mg/L (48h)	Daphnia magna	Crustacean
EC: 200-661-7	EC50 1000 mg/L (72h)	Scenedesmus subspicatus	Algae
2-methoxyethanol	LC50 15520 mg/L (96h)	Oncorhynchus mykiss	Fish
CAS: 109-86-4	EC50 nicht anwendbar		
EC: 203-713-7	EC50 nicht anwendbar		

chronic Toxicity

Identification	Concentration	Species	Genus
2-methoxyethanol	NOEC not applicable	Oncorhynchus mykiss	Fish
CAS: 109-86-4	NOEC 500 mg/L	Daphnia magna	Crustacean
EC: 203-713-7			

12.2 Persistence and degradability

The product is partly biodegradable. Significant residuals remain.

Identification	Degradability	Biodegradability
Propan-2-ol	BSB5 1.19 g O2/g	Concentration 100mg/L
CAS: 67-63-0	CSB 2.23 g O2/g	Period 14 days
EC: 200-661-7	BSB/CSB 0.53	% Biodegradable 86%

12.3 Bioaccumulative potential

Identification	Bioaccumulation potential	
Propan-2-ol	FBK	3
CAS: 67-63-0	POW Protocol	0.05
EC: 200-661-7	Potencial	low
2-methoxyethanol	FBK	3
CAS: 109-86-4	POW Protocol	-0.77
EC: 203-713-7	Potencial	low

12.4 Mobility in soil

Identification	Absorption/Desorption	Volatility	
Propan-2-ol	Koc 1.5	Henry	8.207E-1 Pa*m3/mol
CAS: 67-63-0	Conclusion very high	Dry soil	Yes
EC: 200-661-7	σ 2.24E-2 N7m (25°C)	Moist soil	Yes
2-methoxyethanol	Koc 1	Henry	3.344E-5 Pa*m3/mol
CAS: 109-86-4	Conclusion very high	Dry soil	No
EC: 203-713-7	σ 3.242E-2 N/m (25°)	Moist soil	No

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

12.5 Result of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6 Other adverse effects / Endocrine disrupting properties:

No further relevant information available.

12.7 Other adverse effects

Not described.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	Dangerous

Waste type (Regulation (EU) No. 1357/2014):

HP3 flammable

Waste management (disposal and recovery):

To be disposed of by the authorized waste manager with regard to the recovery and disposal operations according to Annex 1 and Annex 2 (Directive 2008/98/EC). According to codes 15 01 (2014/955/EC), in case the container has been in direct contact with the product, treat it in the same way as the product itself, otherwise as if there were no hazardous residues. Do not allow to enter drains. See section 6.2.

Dispositions regarding waste disposal:

According to Annex II of Regulation (EC) No 1907/2006 (REACH), comply with Community or State regulations regarding waste management.

Community legislation: Directive 2008/98/EC, 2014/955/EC, Regulation (EU) No. 1357/2014.

National regulations: Law on the reorganization of the circular economy and waste law. From February 24, 2012.

14. TRANSPORT INFORMATION

ADR / RID / IMDG / IATA / ADN

14.1 UN number UN1133
14.2. proper UN Shipping Name adhesives/adhesives

14.3 Transport hazard classes
Class 3
Label(s) 3

Tunnel restriction code D/E
14.4. packing group 2
14.5. environmental hazards No
EmS (IMDG) F-E, S-D

14.6 Special precautions for the user

Special instructions: 640D
Tunnel Restriction Code: D/E
Physicochemical properties: see section 9
Limited quantities: 5 L

14.7 Bulk transport according to Annex II of the MARPOL Convention and according to IBC Code Not applicable.



Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

15. REGULATORY INFORMATION

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

Substances for which authorization in Regulation (CE) 1907/2006 (REACH) is pending: 2-methoxyethanol.
Substances included in REACH Annex XIV (Authorization List) and expiration date: Not relevant Regulation (EC) 1005/2009 on ozone depleting substances Not relevant
Article 95, REGULATION (EU) No. 528/2012: 2-propanol (product type 1, 2, 4)
REGULATION (EU) No. 649/2012 on the export and import of dangerous chemical substances: Not relevant

Seveso III:

Section	Description	Requirements for lower class establishments	Requirements for upper class establishments
P5c	FLAMMABLE LIQUIDS	5000	50000

Restrictions on the distribution and use of certain substances and hazardous mixtures
Mixtures (Annex XVII REACH, etc...):

May not be used:

- in decorative articles intended to produce light or color effects (by phase change), e.g. in mood lamps and ashtrays;
- in joke games;
- in games for one or more participants or in products intended for use as such, including for decoration, intended for use as such.

Occupational exposure to alveolar crystalline silica must be controlled in accordance with Directive (EU) 2019/130.

Special dispositions regarding personal and environmental protection:

It is recommended that the information in this safety data sheet be used as input to data collected in a risk assessment of local conditions in order to take the necessary measures to prevent hazards for the management, use, storage and disposal of this product.

WGK (water hazard classes): 1

LGK - Storage class (TRGS 510): 3

Other legislation:

Law for protection against hazardous substances (Chemicals Act - ChemG). Chemicals Act in the version of the Announcement of August 28, 2013 (BGBl. I p. 3498, 3991), which was last amended by Article 115 of the Act of August 10, 2021 (BGBl. I p. 3436).

Ordinance on costs for official acts of the federal authorities under the Chemicals Act (Chemicals Costs Ordinance ChemKostV).

General Administrative Regulation on the Implementation of the Assessment pursuant to Section 12 (2) Sentence 1 of the Chemicals Act (ChemVwV Assessment) of September 11, 1997.

Ordinance on Protection against Hazardous Substances (Gefahrstoffverordnung - GefStoffV) of November 26, 2010 (BGBl. I p. 1643). Amended by Article 2 of the Act of July 28, 2011 (BGBl. I S 1622), by Article 2 of the Ordinance of April 24, 2013 (BGBl. I S 944) and Article 2 of the Ordinance of July 15, 2013 (BGBl. I S 2514), by Article 2 of the Ordinance of 03. February 2015 (BGBl. I S 49), by Article 1 of the Ordinance of 15 November 2016 (BGBl. I S 2549), by Article 148 of the Act of 29 March 2017 (BGBl. I S 626) and by Article 2 of the Ordinance of 21 July (BGBl. I S 3115).

Ordinance on Prohibitions and Restrictions on the Placing on the Market and on the Supply of Certain Substances, Mixtures and Products under the Chemicals Act (Chemicals Prohibition Ordinance ChemVerbotsV). "Chemicals Prohibition Ordinance" of January 20, 2017 (BGBl. I p. 94; 2018 I p. 1389), last amended by Article 300 of the Ordinance of June 19, 2020 (BGBl. I p. 1328).

Ordinance on the notification requirements pursuant to Section 16e of the Chemicals Act for prevention and information in the event of poisoning (Poison Information Ordinance - ChemGiftInfoV). Poison Information Ordinance in the version

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

published on July 31, 1996 (BGBl. I p. 1198), last amended by Article 4 of the Act of July 18, 2017 (BGBl. I p. 2774) General Administrative Regulation on the Procedure for Official Monitoring of Compliance with the Principles of Good Laboratory Practice (ChemVwVGLP) of May 15, 1997, amended by Art. 1 ÄndVwV of November 16, 2011 (GMBI p. 967). Ordinance on the Enforcement of Sanctions under Community or EU Regulations in the Field of Chemicals Sanctions Ordinance (ChemSanktionsV) in the version published on May 10, 2016 (BGBl. I p. 1175)". General Administrative Regulation for the implementation of Council Regulation (EEC) No. 793/93 of March 23, 1993 on the Assessment and Control of the Risks of Existing Commercial Chemical Substances to the Environment (ChemVwVAltstoffe) of September 11, 1997, as amended in: General Administrative Regulation on the Repeal of Administrative Provisions on Chemicals Law Of April 21, 2010. Ordinance on substances that damage the ozone layer (Chemicals Ozone Layer Ordinance ChemOzonSchichtV). Chemicals Ozone Layer Ordinance in the version published on February 15, 2012 (BGBl. I p. 409), last amended by Article 298 of the Ordinance of June 19, 2020 (BGBl. I p. 1328). Act on the Reorganization of the Recycling and Waste Management Law. Of February 24, 2012. last amended by Article 15 of the Act of July 27, 2021 (BGBl. I p. 3146).

15.2 Chemical Safety Assessment:

The supplier has not carried out a chemical safety assessment.

16. OTHER INFORMATION

Legislation applicable to safety data sheets:

This safety data sheet has been developed in accordance with the ANNEX II Guidance on the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Changes from the previous safety data sheet that affect measures to control the risk...:

Not relevant

Texts of legally treated phrases in section 2:

H225: Highly flammable liquid and vapor.

Texts of legally treated phrases in section 3:

The phrases given do not refer to the product itself but are for information purposes only and refer to the individual ingredients, which are in Section 3

Regulation 1272/2008 (CLP):

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapor.

Flam. Liq. 3: H226 - Flammable liquid and vapor.

Repr. 1B: H360FD - May impair fertility. May cause harm to the unborn child.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (inhalation).

STOT SE 3: H336 - May cause drowsiness and dizziness.

Classification method:

Flam. Liq. 2: Calculation method (2.6.4.3).

Advice regarding training:

Minimum occupational risk prevention training is recommended for personnel who will handle this product to facilitate understanding and interpretation of this MSDS and product labeling.

Main Literature Sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Safety Data Sheet

According to EC Regulation 1907/2006/EC (REACH), Annex II, amended according to Regulation (EU) 2020/878-Switzerland

Substance: EZ-125

Stand: 10.05.2023 Version: 1.2

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

COD: Chemical oxygen demand

BOD5: Biological oxygen demand in 5 days

BCF: Bioconcentration factor

LD50: lethal dose 50

LC50: lethal concentration 50

EC50: 50 % effect concentration

LogPOW: octanol-water-partitioefficient

Koc: Organic carbon partition coefficient

Not classified: Not classified

UFI: unique formulation identifier

IARC: International Agency for Research on Cancer

WGK: Water hazard class

Disclaimer

All information in this Safety Data Sheet is accurate and reliable to the best of our knowledge. However, no warranty or guarantee is given as to the accuracy of the information or the suitability of the recommendations contained herein. The user is responsible for determining the safety and toxicity of this product under his own conditions of use and for complying with all applicable laws and regulations.

End of the document