

Trade name: Alcohol ethylenicus

Substance number: 151500

Version: 4 / CH

Date revised: 23.10.2015

Replaces Version: 3 / CH

Print date: 23.10.15

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

### **1.1. Product identifier**

Alcohol ethylenicus

Item No. 15150000

#### **Registration no.**

EC No.: 203-473-3

Registration no. 01-2119456816-28-XXXX

CAS No. 107-21-1

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

#### **Use of the substance/preparation**

Solvent

### **1.3. Details of the supplier of the safety data sheet**

#### **Address**

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible  
for this SDS

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification \*\*\***

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

#### **Classification in accordance with EC directives 1999/45/EC and 67/548/EEC**

Classification Xn, R22

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard pictograms**



##### **Signal word**

Warning

##### **Hazard statements**

H302

Harmful if swallowed.

Trade name: Alcohol ethylenicus

Substance number: 151500

Version: 4 / CH

Date revised: 23.10.2015

Replaces Version: 3 / CH

Print date: 23.10.15

**Precautionary statements \*\*\***

P264.1 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
 P330 Rinse mouth.  
 P501.9 Dispose of contents/container as problematic waste.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains Ethanediol

**Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC**

The product is classified and labelled in accordance with EC directives/the relevant national laws.

**Hazard symbols**

Harmful

**R phrases**

22 Harmful if swallowed.

**S phrases \*\*\***

60 This material and its container must be disposed of as hazardous waste.

**Hazardous component(s) to be indicated on label**

contains Ethanediol

**SECTION 3: Composition/information on ingredients \*\*\*****Hazardous ingredients (Regulation (EC) No. 1272/2008) \*\*\*****Ethanediol**

CAS No.	107-21-1		
EINECS no.	203-473-3		
Concentration	>=	80	%
Classification	Xn, R22		

Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H302

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely.

**After inhalation**

Ensure supply of fresh air.. In the event of symptoms take medical treatment.

**After skin contact**

Wash off immediately with soap and water and rinse well.. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.).. By continuous complaints consult a physician.

**After ingestion**

Rinse out mouth and give plenty of water to drink.. Administer activated charcoal.. Induce vomiting if

Trade name: Alcohol ethylenicus

Substance number: 151500

Version: 4 / CH

Date revised: 23.10.2015

Replaces Version: 3 / CH

Print date: 23.10.15

patient is conscious, seek medical advice.

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

Nausea, Vomiting, Dizziness, respiratory moderation, Convulsions, Cardiovascular disturbance, CNS Disturbance

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

##### **Non suitable extinguishing media**

Full water jet

#### **5.2. Special hazards arising from the substance or mixture**

Carbon monoxide (CO); Can build mixtures of gas and air which are capable of explosion.

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

##### **Other information**

Cool endangered containers with water spray jet.. Apply foam in large quantities because some of it will be destroyed by the product.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep away unprotected persons.

#### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

#### **6.3. Methods and material for containment and cleaning up**

Take up with absorbent material (eg sand, kieselguhr).. When picked up, treat material as prescribed under Section 13 "Disposal".. Ensure adequate ventilation.. Clean up affected area.. Flush away residues with hot water.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary).. Provide good room ventilation even at ground level (vapours are heavier than air).. Handle and open container with care.. Avoid formation of aerosols.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Provide solvent-resistant and impermeable floor.. Use stainless steel containers.. Suitable materials: Polyethylene/Polypropylene.. Do not use aluminium containers.

##### **Hints on storage assembly**

Trade name: Alcohol ethylenicus

Substance number: 151500

Version: 4 / CH

Date revised: 23.10.2015

Replaces Version: 3 / CH

Print date: 23.10.15

Do not store with oxidizing agents., Do not store together with:, Alkalies, Alkalis

### Further information on storage conditions

Keep container tightly closed.. Protect from heat.. Protect from direct sunlight.. Protect from atmospheric moisture and water.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### Ethanediol

List	SUVA			
Type	MAK			
Value	26	mg/m <sup>3</sup>	10	ppm(V)
Short term exposure limit	52	mg/m <sup>3</sup>	20	ppm(V)
Skin resorption / sensibilisation: H; Pregnancy group: S; Status: 2014				

### 8.2. Exposure controls

#### General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work.  
Avoid contact with skin and eyes. At work do not eat, drink, smoke or take drugs. Do not inhale gases/vapours/aerosols.

#### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation.; combination filter A-P2

#### Hand protection

Gloves (solvent-resistant)			
Appropriate Material	Polychloroprene		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Gloves (solvent-resistant)			
Appropriate Material	nitrile		
Material thickness	0.35	mm	
Breakthrough time	>= 8	h	
Gloves (solvent-resistant)			
Appropriate Material	butyl		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Gloves (solvent-resistant)			
Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness	0.4	mm	
Breakthrough time	>= 8	h	
Gloves (solvent-resistant)			
Appropriate Material	PVC		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Not suitable: gloves made of thick material			
Not suitable: leather gloves			
Not suitable: rubber gloves			

#### Eye protection

Safety glasses

#### Body protection

Solvent-resistant protective clothing

Trade name: Alcohol ethylenicus

Substance number: 151500

Version: 4 / CH

Date revised: 23.10.2015

Replaces Version: 3 / CH

Print date: 23.10.15

## **SECTION 9: Physical and chemical properties \*\*\***

### **9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid		
<b>Colour</b>	colourless		
<b>Odour</b>	odourless		
<b>pH value</b>			
Value	9		
Temperature	20	°C	
<b>Melting point</b>			
Value	- 13		°C
<b>Initial boiling point and boiling range</b>			
Value	197.4		°C
Pressure	1013	hPa	
<b>Flash point</b>			
Value	111		°C
Method	DIN 51758		
<b>Upper/lower flammability or explosive limits</b>			
Lower explosion limit	28	to	3.2 % (V)
<b>Vapour pressure</b>			
Value	0.123		hPa
Temperature	25	°C	
<b>Density</b>			
Value	1.11		g/cm <sup>3</sup>
Temperature	20	°C	
Method	DIN 51757		
<b>Solubility in water</b>			
Temperature	20	°C	
Remarks	miscible in all proportions		
<b>Partition coefficient: n-octanol/water</b>			
log Pow	- 1.36		
Temperature	23	°C	
<b>Decomposition temperature</b>			
Value	> 200		°C
<b>Viscosity ***</b>			
<b>dynamic</b>			
Value	16.1		mPa.s
Temperature	25	°C	

### **9.2. Other information**

#### **Other information**

The product is not dangerous for explosions.. Forms explosive mixture with air are possible.

## **SECTION 10: Stability and reactivity**

### **10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

#### **Decomposition temperature**

Trade name: Alcohol ethylenicus

Substance number: 151500

Version: 4 / CH

Date revised: 23.10.2015

Replaces Version: 3 / CH

Print date: 23.10.15

Value &gt; 200 °C

**10.5. Incompatible materials**

Aluminium, Zinc

**10.6. Hazardous decomposition products**

Carbon monoxide, Formaldehyde, Methane, Mercury and organic compounds containing mercury

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	1'600	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute oral toxicity (Components)****Ethanediol**

Species	Human	
LDLo	appr. 1600	mg/kg

**Acute dermal toxicity (Components)****Ethanediol**

Species	mouse	
LD50	> 3500	mg/kg

**Acute inhalational toxicity**

ATE	2.5	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute inhalative toxicity (Components)****Ethanediol**

Species	rat	
LC50	> 2.5	mg/l
Duration of exposure	6	h
Administration/Form	Dust/Mist	

**Skin corrosion/irritation**

evaluation	slightly irritant
------------	-------------------

**Serious eye damage/irritation**

evaluation	slightly irritant
------------	-------------------

**Sensitization**

Remarks	No sensitisation effect known.
---------	--------------------------------

**Sensitization (Components)****Ethanediol**

evaluation	non-sensitizing
------------	-----------------

**Subacute, subchronic, chronic toxicity**

Remarks	Repeated absorption/exposure may cause disorder of liver and kidneys.
---------	---

**Mutagenicity (Components)****Ethanediol**

evaluation	No mutagenicity according to various in vitro tests.
------------	--

**Specific Target Organ Toxicity (STOT)**

evaluation	Causes damage to organs. Route of exposure oral
------------	--

Trade name: Alcohol ethylenicus

Substance number: 151500

Version: 4 / CH

Date revised: 23.10.2015

Replaces Version: 3 / CH

Print date: 23.10.15

Species	Organs: Kidneys
	Human

**Experience in practice**

Can be absorbed through skin.. Danger of serious damage to health by prolonged exposure.

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Fish toxicity (Components)****Ethanediol**

Species	Fathead minnow ( <i>Pimephales promelas</i> )
LC50	72860 mg/l

**Daphnia toxicity (Components)****Ethanediol**

Species	Daphnia magna
EC50	> 100 mg/l
Method	OECD 202

**Algae toxicity (Components)****Ethanediol**

Species	Selenastrum capricornutum
EC50	6500 to 13000 mg/l
Duration of exposure	96 h

**Bacteria toxicity (Components)****Ethanediol**

Species	activated sludge
EC20	> 1995 mg/l
Duration of exposure	0.5 h

**12.2. Persistence and degradability****Biodegradability (Components)****Ethanediol**

Value	90 to 100 %
Duration of test	10 d

**Biochemical oxygen demand (BOD5) (Components)****Ethanediol**

Value	1245 mg/g
-------	-----------

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

log Pow	- 1.36
Temperature	23 °C

**12.6. Other adverse effects****General information / ecology**

Do not allow it to reach soil, ground water, water bodies or sewage system.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Trade name: Alcohol ethylenicus

Substance number: 151500

Version: 4 / CH

Date revised: 23.10.2015

Replaces Version: 3 / CH

Print date: 23.10.15

EWC waste code

No not dispose with rubbish.

EWC waste code

Should not be released into the sanitary sewer system.

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Unpurified packings can contain mixtures of gas and air which are capable of explosion.

Disposal in compliance with local and national regulations.

**SECTION 14: Transport information****Land transport ADR/RID**

Non-dangerous goods

**Marine transport IMDG/GGVSee**

The product does not constitute a hazardous substance in sea transport.

**Air transport ICAO/IATA**

The product does not constitute a hazardous substance in air transport.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 1

Remarks Classification according to Annex 4 VwVwS

**SECTION 16: Other information****R-phrases listed in Chapter 3**

22 Harmful if swallowed.

**Hazard statements listed in Chapter 3**

H302 Harmful if swallowed.

**CLP categories listed in Chapter 3**

Acute Tox. 4 Acute toxicity, Category 4

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.