

Safety Data Sheet  
According to 1907/2006/EG, Article 31  
modification (EG) no. 453/2010

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

### **1.1 Product identifier**

Trade name: **Ethyl Alcohol 99.9%vol.**

REACH registration number: 01-2119457610-43  
Article number: P50087  
CAS nr.: 64-17-5  
EINECS nr.: 200-578-6

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
**Application of the substance/ the preparation:** Diluents / Chemical industry

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

**Manufacturer /Supplier:**

SASMA B.V.  
Heliumstraat 8  
2718 SL Zoetermeer  
T. +31-(0)79-3633064  
@ sales@sasmabv.com  
W www.sasmabv.com

**Further information obtainable from:** SASMA B.V.

### **1.4 Emergency Telephone number:**

**USA and Canada:** For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: **1-800-424-9300 CCN634134 or +1 703-527-3887** (collect calls accepted)  
**The Netherlands:** Phone: **030-274 88 88**, National Poisoning Centre  
(Only to inform doctors in case of accidental poisoning)

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## **SECTION 2: Hazards identification**

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

**Classification according to Regulation (EG) no. 1272/2008**



GHS02 flammable

Flam. Liq. 2 H225 Highly flammable liquid and vapour.  
Eye Irrit. 2 H319 Causes serious eye irritation.



GHS07

Classification according to Directive 67/548/EEG or Directive 1999/45/EG



R11: Highly flammable

**Information concerning particular hazards for human and environment:**

The product has to be labelled according 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.

## 2.2 Label elements

### Labelling according to Regulation (EG) no. 1272/2008

The product is classified and labelled according to the CLP regulation.

### Hazard pictograms



**GHS02**



**GHS07**

**Signal word:** Danger

**Hazard statements:** H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

**Precautionary statements:** P210 Keep away from heat/sparks/open flames/hot surfaces – no smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion proof electrical/ventilation/lighting, ventilating equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash hands, forearms, and exposed areas thoroughly after handling.  
P280 - Wear eye protection, protective gloves, protective clothing.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P370+P378 - In case of fire: Use appropriate media to extinguish.

P403+ P235 Store in a well-ventilated area. Keep cool.

P501 Dispose of contents/container according to the local/ regional/ national/ international regulations.

## 2.3 Other hazards

No further relevant information available.




## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Inapplicable.

### 3.2 Mixtures

**Description:** Mixtures of substances listed below with non hazardous additions.

<b>Dangerous components</b>			
Ethanol	CAS: 64-17-5 EINECS: 200-578-6 Reg. nr.: 01-2119457610-43	99,5% vol.- 100% vol.	 F;R11 S 2-7-16  Flam. Liq. 2, H225  Eye Irrit. 2A, H319
Water	CAS: 7732-18-5 EINECS: 231-791-2	0,5% vol.- 0% vol.	Not classified

### **Additional information:**

For possible hazards please refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General:** Remove contaminated clothing immediately.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Rinse with plenty of water.

**After eye contact:** Rinse opened eye for several minutes under running water. Consult a physician if symptoms persist.

**After swallowing:** Rinse mouth with water and then drink a lot of water. DO NOT induce vomiting. In case of swallowing consult a physician immediately and show packaging or label.

**4.2 Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

## SECTION 5: Fire fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:**

CO2, powder or water spray. Fight larger fires with alcohol resistant foam.

## 5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

## 5.3 Advice for fire fighters

**Protective equipment:** Keep containers/tanks cool with water spray.

## SECTION 6: Accidental release measures

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

Make sure the work area is well ventilated. Keep away from ignition sources. Do not smoke.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### 6.4 Reference to other sections:

See Section 8 for information on personal protection equipment.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Keep away from ignition sources – Do not smoke. Take measures for the discharge of static electricity.

Only use explosion proof equipment.

**Information about fire- and explosion protection:** Remove each possible lighting source (open fire, sparks, smoking.)

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

**Storage:**

**Requirements for storage rooms and tanks:** No special requirements.

**Information about storage in a joint storage facility:** No special requirements.

**Further information about storage conditions:** Keep containers tightly closed. Store cool and dry in closed container.

**7.3 Specific end use(s):** Consult technical guidelines before using this product.

## SECTION 8: Exposure controls / personal protection

**Additional information about the design of technical facilities:** No further data; see section 7.

### 8.1 Control parameters

#### **Ingredients with values that require monitoring at the work place:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the work place.

#### **64-17-5 ethanol**

<b>MAC</b>	TGG 8H (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
<b>MAC</b>	TGG 15 min (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
<b>OSHA PEL</b>	(ppm) / (mg/m <sup>3</sup> )	1000 ppm / 1900 mg/m <sup>3</sup>
<b>OSHA PEL</b>	8 hour TWA (ppm)	1000 ppm
<b>NIOSH REL</b>	10 hour TWA (ppm)	1000 ppm
<b>ACGIH 2015 TLV</b>	8 hour TWA (ppm)	1000 ppm

The product does not contain any components for which MAC values are determined.

DNEL

Ethanol; ethyl alcohol : End use: Employees  
Exposure route: Inhalation

Possible health problems: Acute effects

Toxicity: Local effects

Value: 1900 mg/m<sup>3</sup>

End use: Employees

Exposure route: Skin contact

Possible health problems: Chronic effects

Exposure time: 1d

Value: 343 mg/kg

End use: Employees

Exposure route: Inhalation

Possible health problems: Chronic effects

Value: 950 mg/m<sup>3</sup>

End use: Consumers

Exposure route: Inhalation

Possible health problems: Acute effects

Toxicity: Local effects

Value: 950 mg/m<sup>3</sup>

End use: Consumers

Exposure route: Skin contact

Possible health problems: Chronic effects

Exposure time: 1d

Value: 206 mg/kg

End use: Consumers

Exposure route: Inhalation

Possible health problems: Chronic effects

Value: 114 mg/m<sup>3</sup>

End use: Consumers

Exposure route: Swallowing

Possible health problems: Chronic effects

Toxicity: 1d

Value: 87 mg/kg

PNEC

Ethanol; ethyl alcohol

: freshwater

Value: 0,96 mg/l

Seawater

Value: 0,79 mg/l

Freshwater deposition

Value: 3,6 mg/kg

Soil  
Value: 0,63 mg/kg

## 8.2 Exposure control measures:

### Technical measures:

Make sure there is enough ventilation in the working area.

### Personal protective equipment:

**General protective and health measures:** Wash hands before every break and after work.

**Respiratory protection:** No respiratory protection needed with normal use. If the room is not well-ventilated, with strong odour or when damps are released use respiratory protection with filter type A or a combination filter that complies with EN 141.

**Protection of hands:** The materials of the gloves have to be impermeable and resistant to the product/ the substance/ the preparation/ the chemical mixture. Choose the glove material with consideration of the penetration times, rates of diffusion and the degradation.

### Material of gloves:

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and therefore has to be checked prior to the application.

### Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be taken into account.

### Eye protection:



Wear safety goggles.

## SECTION 9: Physical and chemical properties

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

#### General Information:

Appearance:

Physical state at 20 °C:

Liquid

Colour:

Colourless, clear liquid.

Odour:

Characteristic (Alcoholic)

Odour threshold:

Not determined.

pH:

6 – 9 (depends on oxygen ingress).

State change:

Not determined

Melting point:

ca. -144 °C

Boiling point:

78,2 °C, 1.013hPa

Flash point:

12 °C ASTM D 56

Flammability (solid, gas):

Not determined

Ignition temperature:

425 °C

Decomposition temperature:

Not determined

Self ignition:	363°C
Danger of explosion:	Product is not an explosion hazard but it is possible that explosion hazardous vapour and air mixtures will form.
Explosion limits:	
Bottom:	3,5 vol %
Upper:	15,0 vol %
Vapour pressure at 20 C:	58,5 hPa, 20 °C 78,7 hPa, 25°C
Density:	0,8 g/cm <sup>3</sup> at 20 °C 0,785 g/cm <sup>3</sup> at 25 °C
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility:	Fully miscible
Ratio coefficient N-octanol/water:	Not determined.
Viscosity	
Dynamic:	Not determined
Kinematic:	Not determined

## 9.2 Other information

No further relevant information available.

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

### **10.1 Reactivity**

### **10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**10.3 Possible hazardous reactions:** No dangerous reactions known.

**10.4 Conditions to avoid:** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

### **11.1 Information of toxicological effects**

#### **Components**

#### **Ethanol; Ethyl alcohol:**

##### Acute oral toxicity:

LD50:>2.000 mg/kg, rat, OECD test directive 401, GLP: no, (literature value)

##### Acute toxicity with inhalation:

LC50:> 20mg/l, 4 h, mouse, (literature value)

##### Acute dermal toxicity:

LD50:>2.000 mg/kg, rabbit, OECD test directive 402, GLP: no, (literature value)

##### Skin corrosion/ irritation:

Rabbit, result: non corrosive, OECD test directive 404, GLP, no (literature value)

##### Serious eye injury/eye irritation:

Rabbit, result: some irritation, OECD test directive 405, GLP, no (literature value)

Sensibilisation of airways/skin:

Maximalisation test, guinea pig, result: Not sensitizing, OECD test directive 406, GLP: yes, (literature value)

**Mutagenicity in gametes:**

Genotoxicity in vitro

Ames test, Salmonella typhimurium, with and without, result: non mutagen, OECD test directive 471, GLP: no, (literature value)

Further information:

No further relevant information.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components**

**Ethanol; ethyl alcohol:**

Toxicity for fish:

LC50:> 100 mg/l, 48h, Leuciscus Idus, static test, OECD test directive 203, GLP: no, (literature value)

Toxicity for daphnia's and other invertebrate aquatic animals:

EC50:> 100 mg/l, 24h, Daphnia magna, static test, OECD test directive 202, GLP: yes, (literature value)

Toxicity for algae:

EC50:> 100 mg/l, Chlorella pyrenoidosa static test, OECD test directive 201, GLP: no, (literature value)

**12.2 Persistence and degradability**

**Components**

**Ethanol; ethyl alcohol:**

Biological degradability:

Aëroob,>70% Result: Easily biologically degradable, exposure time: 5d, OECD test directive 301 D, GLP: no, (literature value)

**12.3 Bioaccumulation:** No further relevant information.

**12.4 Mobility in soil:** No further relevant information.

**Additional ecological information:**

**General information:**

Water hazard class 1 (D) (Self classification): danger to water small.

Do not allow undiluted product or large quantities to reach ground water, surface water or sewage system. Water hazard class (NL) 11: Little damage to no damage to aquatic organisms.

**Results of PBT- en zPzB-assessment (BCF)**

**PBT:** Ethanol is not considered to be persistent, bioaccumulative, or toxic.

**zPzB:** Ethanol is not considered to be very persistent or very bioaccumulative.

**Other hazardous effects:** No further relevant information.



## **SECTION 13: Disposal considerations**

### **13.1 Disposal method:**

Product:

Product can be burned but it must be done according to official regulation.

Uncleaned packaging:

Contaminated packaging must be completely emptied. They can be recycled after cleaning.

## **SECTION 14: Transport information**

### **14.1 UN nummer**

**ADR** : 1170  
**RID** : 1170  
**IMDG** : 1170  
**IATA** : 1170

### **14.2 UN name**

**ADR** : Ethanol, Ethylalcohol, Ethylalcohol  
**RID** : Ethanol, Ethylalcohol, Ethylalcohol  
**IMDG** : Ethanol, Ethanol, Ethyl Alcohol  
**IATA** : Ethanol

### **14.3 Transport hazard class**

**ADR** : 3  
**RID** : 3  
**IMDG** : 3  
**IATA** : 3

### **14.4 Packing group**

**ADR**  
Packing Group : II  
Classification code : F1  
Hazard identification number : 33  
Etiketten : 3  
Tunnel restriction code : (D/E)

**RID**  
Packing Group : II  
Classification code : F1  
Hazard identification number : 33  
Labels : 3

**IMDG**  
Packing Group : II  
Labels : 3  
EMS number : F-E, S-D

**IATA**  
Packaging instructions : 307  
(freight plane)  
Packing group : II

Labels : 3

#### **14.5 Environmental hazards:**

##### **ADR**

Hazardous for environment : no

##### **IMDG**

Marine pollutant : no

##### **IATA**

Hazardous for environment : no

#### **14.6 Special precautions for user**

No further relevant information available.

#### **14.7 Transport in bulk according to annex II at MARPOL 73/78 and the IBC-code**

Pollution category: Z

### **SECTION 15: Regulatory information**

#### **15.1 Specific safety, health and environment regulations and – legislation for the substance or the mixture.**

Regulatory information about hazard with heavy accidents:

96/82/EC

Highly flammable

Amount 1: 5.000 t

Amount 2: 50.000 t

#### **Notification status**

EINECS : On or in compliance with the list

TSCA : On the TSCA-list

AUSTR : On or in compliance with the list

DSL : All components of this product are on the Canadese DSL list

ENCS : On or in compliance with the list

KOREA : On or in compliance with the list

PHIL : On or in compliance with the list

CHINA : On or in compliance with the list

ISHL : On or in compliance with the list

NZIOC : On or in compliance with the list

#### **15.2 Chemical safety assessment:**

A chemical safety assessment has been done for this product.

### **SECTION 16: Other information**

#### **Full R-phrases listed in section 2 and 3**

R11 Highly flammable

#### **Full H-phrases listed in paragraph 2 and 3**

H225 Highly flammable liquid and vapor



## **Further information**

### Further information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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