

**Material Safety Data Sheet**  
**According to 1907/2006/EG, Article 31**

**Printing date:** 24 July 2018 / Version 1.0  
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## Ethanol 96%

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

#### **1.1 Product identifier:**

**Trade name:** Ethanol 96%  
**REACH-Registration No.:** 01-2119457610-43  
**Product code:** P50087  
**CAS no.:** 64-17-5  
**EINECS no.:** 200-578-6

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

Application of the substance/ the preparation: solvent/ chemical production.

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

**Manufacturer/ supplier** : Laboratorios Fonté SA de CV  
AV Industrias 5548  
San Luis Potosí  
Mexico  
524447997098

**Further information obtainable from:** Laboratorios Fonté SA de CV

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

Phone: 524447997098

### **2. Hazards identification**

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

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

Flammable liquids, Category 2



H225: Highly flammable liquid and vapour.

## 2.2 Label elements

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

### Hazards pictograms



GHS02

**Signal word:** Danger

**Hazard statements:** H225 Highly flammable liquid and vapour.

**Precautionary statements:** P210 Keep away from heat/sparks/open flames/ hot surfaces – No smoking.  
P233 Keep container tightly closed.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P243 Take precautionary measures against static discharge.  
P303+P361+P353 IF ON SKIN (or hair): remove/ take off immediately all contaminated clothing. Rinse skin with water/shower.  
P403+P235 Store in a well-ventilated area. Keep cool.

### 2.3 Other hazards

No further relevant information available.

## 3. Composition/information on ingredients.

### 3.1 Substances

Chemical name	CAS-no. EINECS-no./ ELINCS no.	weight (%)
<b>MAC-substance:</b>		
Ethanol; Ethyl alcohol	64-17-5 200-578-6	min. 96 %

## 4. First Aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated clothing immediately.

In case of inhalation:

Supply fresh air.

In case of skin contact:

Wash immediately with plenty of water.

In case of Eye contact:

Rinse opened eyes for several minutes under running water. Consult a physician.

In cast of swallowing:

Rinse mouth with plenty of water and drink many water. Clean mouth with water and drink afterward plenty of water. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container 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:**

Treatment:

For specialist advice physicians should contact the Poisons contact.

### **5. Fire fighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media:

Alcohol resistant foam  
(CO<sub>2</sub>)

Dry powder

Water spray

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

Specific hazards during the fire fighting:

No further relevant information available.

#### **5.3 Advice for fire fighters**

Further information:

Cool containers / tanks with waterspray

### **6. Accidental release measures**

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

Personal precautions

Provide adequate ventilation. Keep away from sources of ignition – No smoking.

#### **6.2 Environmental precautions**

Environmental precautions

Do not allow to enter into surface water of drains. Do not allow to enter into soil/subsoil.

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

Cleaning methods:

Contain and collect spillage with non-combustible absorbent material, (eg sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see 13 initials).

#### 6.4 Reference to other sections:

See section 8 for information on personal protection equipment.

### 7. Handling and storage

#### 7.1 Precautions for safe handling:

Advice on protection against fire and explosion:

Keep away from sources of ignition – No smoking. Take precautionary measures against static discharges. Use only explosion-proof equipment.

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

Requirements for storage areas and containers:

Keep containers tightly closed in a cool, well-ventilated place.

#### Storage class:

3 flammable liquids

#### 7.3 Specific end use(s):

The use of this substance/ mixture consult the technical guidelines.

### 8. Exposure controls/ personal protection

#### 8.1 Control parameters

<u>Ingredients</u>	<u>CAS-No.</u>	<u>Value</u>	<u>Control parameters</u>	<u>Revision</u>	<u>Base</u>
Ethanol	64-17-5	TGG	260 mg/m <sup>3</sup>	04 2008	NL OEL
		TGG 15	1.900 mg/m <sup>3</sup>	04 2008	NL OEL

The product contains no substances with occupational exposure limit values

DNEL

Ethanol; ethyl alcohol

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute effects

Toxicity: Local effects

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

End Use: Workers

Exposure routes: Contact with the skin

Potential health effects: Chronic effects

Toxicity: 1d

Value: 343 mg/kg

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Chronic effects

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

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Acute effects.  
Toxicity: Local effects  
Value: 950 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Contact with the skin  
Potential health effects: Chronic effects  
Toxicity: 1d  
Value: 206 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Chronic effects  
Value: 114 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: swallowed  
Potential health effects: Chronic effects  
Toxicity: 1 d  
Value: 87 mg/kg

PNEC

Ethanol; ethyl alcohol

: Freshwater  
Value: 0,96 mg/l

Seawater  
Value: 0,79 mg/l

Freshwater deposits  
Value: 3,6 mg/kg

Soil  
Value: 0,63 mg/kg

## **8.2 Exposure control measures:**

### **Technical measures:**

Provide sufficient air exchange and/ or exhaust in work rooms.

### **Personal protective Equipment:**

#### **Respiratory protection:**

No personal respiratory protective equipment required under normal use. In case of insufficient ventilation, exceeding workplace limits to severe odor nuisance or release of aerosols, mists and smoke one of the self-contained breathing mask or respirator with filter type A or combination filter accordingly (in the presence of aerosol, mist and fumes, eg A-P2 or ABEK-P2) according to EN 141 use.

#### **Eye protection:**

Wear safety goggles.

### Hygiene measures:

Remove contaminated clothing immediately

### Protective measures

Do not breath vapors or spray mist.

### Environmental exposure

General advice:

Do not flush. Into surface water or sanitary sewer Avoid subsoil penetration. Do not allow water contamination.

## **9. Physical and chemical properties**

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

Physical state	: Liquid
Colour:	: Colourless
Odor	: Alcoholic
Solubility	: Fully miscible
Boiling point	: 78,2 °C, 1.013hPa
Melting point	: ca. -114 °C
Bottom explosion limit	: 3,5 % (V)
Upper explosion limit	: 15% (V)
Vapour pressure	: 58,5 hPa, 20 °C 78,7 hPa, 25 °C
Density	: 0,8 g/cm <sup>3</sup> , 20 °C 0,785 g/cm <sup>3</sup> , 25 °C
Flash point (°C)	: 12 °C, ASTM D 56
Flammability (solid, gas)	: log Pow: -0,35, 20 °C
Self ignition temperature	: 363 °C
Ignition temperature	: 425 °C
Thermal decomposition	: At atmospheric pressure without decomposition Distillate learnable.
Viscosity, Dynamic	: 1,2 mPa.s, 20 °C

### **9.2 Other information**

Oxide ring power : No further relevant information available.

Refractive index : No further relevant information available.

## **10. Stability and reactivity**

### **10.1 Reactivity**

No further relevant information available.

### **10.2 Chemical Stability**

No further relevant information available.

### **10.3 Possible hazardous reactions**

Dangerous reactions : No dangerous reactions known.

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

Conditions to avoid : No further relevant information available.

#### **10.5 Incompatible materials**

Materials to avoid : No further relevant information available.

#### **10.6 Hazardous decomposition products:**

No dangerous decomposition products known.

### **11. Toxicological information**

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

##### **Constituents**

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

##### Acute oral toxicity:

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

##### Acute inhalation toxicity

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

##### Acute dermal toxicity

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

##### Skin corrosion/ irritation

Rabbit, Result: non irritating, OECD test guideline 404, GLP: yes, (literature value)

##### Serious eye damage/ eye irritation

Rabbit, Result: slightly irritating, OECD test guideline 405, GLP: no, (literature value)

##### Sensitization of the respiratory system and skin

Maximization Test, guinea pig, Result: non-sensitizing, OECD test guideline 406, GLP, Yes, (literature value).

##### **Germ cell mutagenicity**

##### Genotoxicity in vitro

Ames test, Salmonella typhimurium, with and without, Result, not mutagenic, OECD Test Guideline 471, GLP: No, (literatur value)

##### Other information

No further relevant information available.

### **12. Ecological information**

#### **12.1 Toxicity**

##### **Constituents**

##### **Ethanol; ethyl alcohol:**

##### Toxicity for fish:

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

##### Toxicity to daphnia and other aquatic invertebrates:

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

Toxicity for algae:

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

## **12.2 Persistence and degradability**

### **Constituents**

#### **Ethanol; ethyl alcohol:**

Biodegradation:

aërobic, >70% Result: readily biodegradable, exposure time: 5d, OECD test guideline 301 D, GLP: no, (literature value).

## **12.3 Bioaccumulation**

### **Product:**

Bioaccumulation:

No further relevant information available.

## **12.4 Mobility in soil.**

### **Constituents:**

#### **Ethanol; ethyl alcohol**

Mobility

No further relevant information available.

## **12.5 Results of PBT- en zPzb-assessment**

### **Constituents:**

#### **Ethanol; ethyl alcohol:**

Rating:

This substance is not considered to be persistent, bioaccumulative, and toxic (PBT).

This substance is not considered to be very persistent and very bioaccumulative (vPvB)

## **12.6 Other hazardous effects:**

### **Constituents:**

#### **Ethanol; ethyl alcohol:**

**Additional ecological information:**

No further relevant information available.

## **13. Disposal considerations**

### **13.1 Disposal method:**

Product:

Can be incinerated, when in compliance with local regulations.

### **Contaminated packaging:**

Contaminated packaging must be emptied optimally. These can be recycled after the corresponding cleaning.

## **14. Transport information**

### **14.1 VN number**

**ADR** : 1170

**RID** : 1170

**IMDG** : 1170



**IATA** : 1170

#### 14.2 UN Proper shipping 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  
Classificationcode : F1  
Hazard identification number : 33  
Label : 3  
Tunnel restriction code : (D/E)  
**RID**  
Packing Group : II  
Classificationcode : F1  
Hazard identification number : 33  
Label : 3  
**IMDG**  
Packing Group : II  
Label : 3  
EMS number : F-E, S-D  
**IATA**  
Packing instructions : 307  
(cargo plane)  
Packing group : II  
Label : 3

#### 14.5 environmental Hazards

**ADR**  
Dangerous for the environment : no  
**RID**  
Dangerous for the environment : no  
**IMDG**  
Marine Pollutant : no  
**IATA**  
Dangerous for the environment : no

#### 14.6 Special precautions for user

No further relevant information available.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC code VN  
“Model regulations”.**

Pollution Category: Z

**15. Regulations**

**15.1 Specific safety, health and environment regulations and legislation of the substance or the mixture.**

Legislation Major Accident Hazard:

96/82/EC

Flammable

Quantity 1: 5.000 t

Quantity 2: 50.000 t

**Notification status**

EINECS : On or in compliance with the list

TSCA : On TSCA inventory

AUSTR : On or in compliance with the list

DSL : All components of this product are on the Canadian 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**

A chemical safety assessment has been carried out for this substance.

**16. Other information**

**Statement of changes**

2.1	changed
16	changed

**Full text of H-Statements reported in sections 2 and 3.**

H225 Highly flammable liquid and vapour

**Other 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.