

# Ethanol absolute

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 12/12/2024 Version: 1.0



By PROCHIMA-SIGMA

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

#### 1.1. Product identifier

Product form : Substance  
Name : Ethanol absolute 99%  
EC Index-No. : 603-002-00-5  
EC-No. : 200-578-6  
CAS-No. : 64-17-5  
Product code : SP20105  
Formula : C2H6O

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

##### Relevant identified uses

Use of the substance/mixture : Manufacturing, chemical intermediates, industrial distribution, industrial formulation/assembly and packaging, fuel, coatings and paint, antifreeze, window cleaner, washing and cleaning products, laboratory products, heat transfer agent or other functional fluid.

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

PROCHIMA SIGMA  
Zone industrielle Khemisti, D N° 06, N° 02  
Hennaya - Tlemcen  
Algérie  
T. : +213 44 96 35 35 , F. : +213 44 96 36 36  
[contact@prochima-sigma.com](mailto:contact@prochima-sigma.com) , [www.prochima-sigma.com](http://www.prochima-sigma.com)

#### 1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Algeria	Centre national de toxicologie	Route petit Staoueli NIPA-Dely Brahim - Alger - Algérie	+213 23 36 77 77	

### SECTION 2: Hazards identification

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

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

Flam. Liq. 2 H225

Eye Irrit. 2 H319

Full text of hazard classes, H- and EUH-statements: see section 16

Specific concentration limits (%):

(50 ≤ C < 100)

Eye Irrit. 2; H319

##### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes serious eye irritation.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) :

Danger

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Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof ventilating, lighting, electrical equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P280 - Wear protective gloves, eye protection, face protection. 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. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Other hazards which do not result in classification : Vapours may form explosive mixture with air.

To our knowledge, contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Ethanol (64-17-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Ethanol (64-17-5)
Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Ethanol (64-17-5)

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name	: Ethanol 99
CAS-No.	: 64-17-5
EC-No.	: 200-578-6
EC Index-No.	: 603-002-00-5

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	99-100	Flam. Liq. 2, H225 Eye Irrit. 2, H319

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	(50 ≤ C < 100) Eye Irrit. 2; H319

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove victim to fresh air. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Wash skin with mild soap and water. If case of redness or irritation, call a doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth out with water. Never give anything by mouth to an unconscious person. Get medical advice and attention if you feel unwell.

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

Symptoms/effects after inhalation	: In the event of exposure to high concentrations : Nausea, Headache, Irritation of the respiratory tract.
Symptoms/effects after skin contact	: Repeated or prolonged skin contact may cause irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: CNS depression. Nausea. Vomiting.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical powder. Alcohol resistant foam. Carbon dioxide (CO <sub>2</sub> ). Water spray.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.

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

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: Vapours may form explosive mixture with air.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO <sub>2</sub> ). Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions	: Evacuate the danger area. Stop leak if safe to do so. Cool down the containers exposed to heat with a water spray.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

General measures : No flames, no sparks. Eliminate all sources of ignition.

#### For non-emergency personnel

Protective equipment : Do not attempt to take action without suitable protective equipment.

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Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing vapours.

### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Contain the spilled material by bunding. Do not flush into surface water or sewer system.

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

For containment : Stop leak without risks if possible. Take up liquid spill into absorbent material, e.g.: sand/earth.

Methods for cleaning up : Wash contaminated area with large amounts of water.

Other information : Dispose of contaminated materials in accordance with current regulations.

## 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. See Section 13 for disposal information.

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## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

Additional hazards when processed : Vapours may form explosive mixture with air.

Precautions for safe handling : Avoid the build-up of electrostatic charge. Ground/bond container and receiving equipment. Use non-sparking tools. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid breathing vapours.

Hygiene measures : Do not drink, eat or smoke in the workplace. Always wash hands after handling the product.

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

Technical measures : The floor of the depot must be impermeable, non-combustible and designed to form a basin, in order that stored flammable liquids should not, under any circumstances, be released outside. Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place.

Incompatible materials : Strong mineral acids. Oxidation agents.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs. Keep away from combustible materials.

Special rules on packaging : Store in original container.

### 7.3. Specific end use(s)

No additional information available

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## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure that there is a suitable ventilation system. Extraction to remove vapours at their source.

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### Personal protection equipment

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses. (EN ISO 16321)

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard ISO 374-1. Breakthrough time : refer to the recommendations of the supplier

### Respiratory protection

#### Respiratory protection:

Wear respiratory protection.

## SECTION 9 : Physical and chemical properties

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

Physical state	: Liquid
Colour	: Colourless.
Odour	: Not available
Odour threshold	: Not available
Melting point	: -114.49 °C
Freezing point	: Not available
Boiling point	: 78.2 °C
Flammability	: Highly flammable liquid and vapour.
Explosive properties	: Vapours may form explosive mixture with air.
Oxidising properties	: Non oxidizing.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 13 °C
Auto-ignition temperature	: 363 °C (1013 hPa)
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 1.2 mPa·s
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: -0.35 (20°C)
Vapour pressure	: 58.5 hPa (20°C)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 784.4 kg/m <sup>3</sup> (25°C)
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### Other safety characteristics

VOC content : 99

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Highly flammable liquid and vapour. Explosive vapour/air mixtures may be formed.

#### 10.2. Chemical stability

Stable at room temperature.

#### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

#### 10.4. Conditions to avoid

Avoid ignition sources. Heat. Sparks. Open flame. Direct sunlight.

#### 10.5. Incompatible materials

Strong mineral acids. Oxidation agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg (OECD 401 method)
LC50 Inhalation - Rat (Vapours)	124.7 mg/l/4h (OECD 403 method)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)  
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)  
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)  
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

#### 11.2. Information on other hazards

No additional information available

### SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)  
Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

Ethanol (64-17-5)	
LC50 fish	14200 mg/l/96h (Pimephales promelas (US EPA E03-05))

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Ethanol (64-17-5)	
EC50 Daphnia	5012 mg/l/48 h (Ceriodaphnia dubia (ASTM E729-80))
ErC50 algae	275 mg/l/72 h ((Chlorella vulgaris) (equivalent or similar to OECD Guideline 201))
NOEC chronic fish	250 mg/l (120 Hours) (Danio rerio (équivalent ou similaire à la ligne directrice OCDE 212))
NOEC chronic crustacea	9.6 mg/l (9 days) (Daphnia magna (Water flea) (Published data))
NOEC chronic algae	11.5 mg/l/72 h ((Chlorella vulgaris) (equivalent or similar to OECD Guideline 201))

### 12.2. Persistence and degradability

Ethanol	
Persistence and degradability	No data available.

Ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	84 % (20 days (Published data))

### 12.3. Bioaccumulative potential

Ethanol	
Partition coefficient n-octanol/water (Log Pow)	-0.35 (20°C)

### 12.4. Mobility in soil

Ethanol (64-17-5)	
Ecology - soil	Small adsorption. Product evaporates rapidly when in contact with the air.

Ethanol	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.2 (Handbook)
Ecology - soil	Very mobile.

### 12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Ethanol (64-17-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Ethanol (64-17-5)

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.  
Product/Packaging disposal recommendations : Contaminated packaging should be emptied optimally. Reuse or recycle following washing.

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Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

### SECTION 14: Transport information

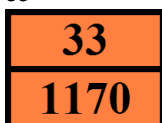
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 1170	UN 1170	UN 1170	UN 1170	UN 1170
<b>14.2. UN proper shipping name</b>				
ETHANOL (ETHYL ALCOHOL)	ETHANOL (ETHYL ALCOHOL)	Ethanol	ETHANOL (ETHYL ALCOHOL)	ETHANOL (ETHYL ALCOHOL)
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E EmS-No. (Spillage): S-D	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

#### 14.6. Special precautions for user

##### Overland transport

Classification code (ADR) : F1  
Special provisions (ADR) : 144, 601  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1  
Tank code (ADR) : LGBF  
Vehicle for tank carriage : FL  
Transport category (ADR) : 2  
Special provisions for carriage - Operation (ADR) : S2, S20  
Hazard identification number (Kemler No.) : 33  
Orange plates :



Tunnel restriction code (ADR) : D/E

##### Transport by sea

Special provisions (IMDG) : 144  
Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2

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Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
Stowage category (IMDG)	: A

### Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A58, A180
ERG code (IATA)	: 3L

### Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 144, 601
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

### Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 144, 601
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

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### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

VOC content : 99

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor
CAS-No.	Chemical Abstract Service number
EC-No.	European Community number
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
LD50	Median lethal dose
LC50	Median lethal concentration
EC50	Median effective concentration
ErC50	Concentration leading to 50% of effect in terms of growth rate reduction
NOEC	No-Observed Effect Concentration
Pow (log)	n-octanol/water partition coefficient

Data sources : SDS of suppliers. ECHA (European Chemicals Agency).

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2

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### Full text of H- and EUH-statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.