

Safety data sheet according to 1907/2006/EC, Article 31

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Printing date 21.11.2022 Revision: 21.11.2022

Version number 12.01 (replaces version 12.00)

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

· 1.1 Product identifier

· Trade name: Ethanol 96 %

· Article number: 1085

· Application of the substance / the mixture Laboratory chemicals

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: PANREAC QUIMICA S.L.U.

PANREAC QUIMICA S.L.U.

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e-mail: product.safety@itwreagents.com

E-08211 Castellar del Vallès (Barcelona)

· Further information obtainable from: email: product.safety@panreac.com

· 1.4 Emergency telephone number:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

## **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

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

Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB 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, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

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P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or 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.

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

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

# **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

 CAS: 64-17-5
 ethanol
 >50-<100%</td>

 EINECS: 200-578-6
 Flam. Liq. 2, H225; Eye Irrit. 2, H319

 Reg.nr.: 01-2119457610-43 Specific concentration limit:

 XXXX
 Eye Irrit. 2; H319: C ≥ 50%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

# **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information:

Take affected persons out of danger area and lay down.

Take affected persons out into the fresh air.

Keep quiet and cover. Seek medical treatment.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately remove any clothing soiled by the product.

If skin irritation continues, consult a doctor.

- · After eye contact: Call a doctor immediately.
- After swallowing:

A person vomiting while laying on their back should be turned onto their side.

make victim drink water (maximum of 2 drinking glasses)

· 4.2 Most important symptoms and effects, both acute and delayed

Irritation to eyes, skin and mucous membrane

Nausea

Headache

Dizziness

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

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

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

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Carbon monoxide and carbon dioxide

Combustible.

Forms explosive mixtures with air at ambient temperatures.

Vapours ara heavier than air and may spread along floors.

Beware of backfiring.

Forms explosive mixtures with air on intense heating.

- · 5.3 Advice for firefighters
- Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information** 

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Contain escaping vapours with water.

# **SECTION 6: Accidental release measures**

# · 6.1 Personal precautions, protective equipment and emergency procedures

Protect against electrostatic charges.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Avoid substance contact.

Do not inhale steams/aerosols.

#### · 6.2 Environmental precautions:

danger of explosion!

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).

Ensure adequate ventilation.

Clean up affected area.

## · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Work only in fume cupboard.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

## · Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

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

- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Provide solvent resistant, sealed floor.

Keep receptacles tightly sealed.

Store in a cool location.

### · Information about storage in one common storage facility:

Store away from foodstuffs and feedstuffs

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Away from sources of ignition and heat.

## Further information about storage conditions:

Keep away from open flames, hot surfaces and sources of ignition.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Open receptacle only under localised extractor facilities.

Store receptacle in a well ventilated area.

Store only outside or in explosion proof rooms.

Store under lock and key and with access restricted to technical experts or their assistants only.

- Recommended storage temperature: Room Temperature
- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

#### 64-17-5 ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

· DNELs

## 64-17-5 ethanol

04-17-3 60	ilialioi	
Oral	Long-term - systemic effects, general population	87 mg/kg
Dermal	Acute - systemic effects, worker	343 mg/kg
	Long term - systemic effects, general population	206 mg/kg
Inhalative	Acute - local effects, worker	1,900 mg/m3
	Long-term - systemic effects, worker	950 mg/m3
	Acute - local effects, general population	950 mg/m3
	Long-term - systemic effects, general population	114 mg/m3

#### · PNECs

## 64-17-5 ethanol

Aquatic compartment - freshwater	0.96 mg/L
Aquatic compartment - marine water	0.79 mg/L
Aquatic compartment - water, intermittent releases	2.75 mg/L
Aquatic compartment - sediment in freshwater	3.6 mg/kg
Terrestrial compartment - soil	0.63 mg/kg
Sewage treatment plant	580 mg/L
Oral secondary poisoning	0.72 mg/kg food

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device only when aerosol or mist is formed.

Recommended filter device for short term use: Filter AX

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#### · Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the 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 has therefore 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 observed.

## For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.7 mm

Value for the permeation: Level ≥ 480 min

## · As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: > 0.4 mm

Value for the permeation: Level ≥ 120 min

· Eye/face protection



Tightly sealed goggles

· Body protection: Flame retardant antistatic protective clothing

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

- · 9.1 Information on basic physical and chemical properties
- · General Information

Physical state
Colour:
Odour:
Odour threshold:
Fluid
Colourless
Alcohol-like
Not determined.

· Melting point/freezing point: -114 °C

· Boiling point or initial boiling point and boiling

range 78 °C

• Flammability Not applicable.
Highly flammable.

· Lower and upper explosion limit

 · Lower:
 2.5 Vol %

 · Upper:
 13.5 Vol %

 · Flash point:
 15 °C

• **Decomposition temperature:** Not determined.

· **pH at 20 °C** 5.3

· Viscosity:

Kinematic viscosityDynamic at 20 °C:Not determined.1.2 mPas

· Solubility

• water: Fully miscible.
• Partition coefficient n-octanol/water (log value) -0.35 log POW
• Vapour pressure at 20 °C: 57.3 hPa

· Density and/or relative density

Density at 20 °C:
 Relative density
 0.807 g/cm³
 Not determined.

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Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of he	ealth
and environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	96.0 %
Water:	4.0 %
VOC (EC)	96.00 %
Solids content:	0.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical ha	zard
classes	M-14
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids Flammable solids	Highly flammable liquid and vapour.
	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void

Void

Void

Void

Void

Void

Void

# **SECTION 10: Stability and reactivity**

Substances and mixtures, which emit flammable gases in contact with water

- · 10.1 Reactivity Forms explosive gas mixture with air.
- 10.2 Chemical stability

Oxidising liquids

Oxidising solids

· Organic peroxides

Corrosive to metals

· Desensitised explosives

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Exothermic reactions with:

strong acids

alkaline earth metals

alkali metals

strong oxidants

peroxides

Reacts with halogenated compounds.

10.4 Conditions to avoid

Danger of receptacles bursting because of high vapour pressure when heated.

Forms explosive gas mixture with air.

10.5 Incompatible materials:

Exothermic reactions with:

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strong acids strong oxidants alkali metals alkaline earth metals peroxides phosphorus metallic oxides

- · 10.6 Hazardous decomposition products: In the event of fire: See chapter 5
- Additional information: Explosible with air in a vaporous/gaseous state.

# **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity
- LD/LC50 values relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

	· Compone	ents	Type	Value	Species
64-17-5 ethanol					
ľ	Oral	LD50	8,350 mg/kg (mouse	e)	
			10,470 mg/kg (rat)		
	Inhalative	LC50/4 h	116.9 mg/l (rat)		

- · Serious eye damage/irritation Causes serious eye irritation.
- After inhalation: No irritant effect.
- · Carcinogenicity

#### 64-17-5 ethanol

NOAEL (carcinogenicity) >3,000 mg/kg bw/day (rat)

· Reproductive toxicity

## 64-17-5 ethanol

NOAEL (Fertility) 13,800 mg/kg bw/day (mouse)

- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.

	· Type of tes	st Effective concentration Method Assessment
64-17-5 ethanol		
	EC50/72 h	275 mg/l (Algae)
	EC50/48 h	12,900 mg/l (Algae)
	LC50/24 h	11,200 mg/l (fish)
	LC50/48 h	12,340 mg/l (daphnia magna)
	LC50/96 h	13,000 mg/l (fish)

- 12.2 Persistence and degradability The product is easily biodegradable.
- 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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· 12.7 Other adverse effects

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· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information	TION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1170	
· 14.2 UN proper shipping name · ADR, IMDG	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
· IATA	ETHANOL SOLUTION	
· 14.3 Transport hazard class(es)		
· ADR		
· Class	3 (F1) Flammable liquids.	
Label	3	
· IMDG, IATA		
· Class	3 Flammable liquids.	
Label	3	
· 14.4 Packing group · ADR, IMDG, IATA	II	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E,S-D A	
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.	

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(Contd. of page 8) · Transport/Additional information: · Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category · Tunnel restriction code D/E · IMDG · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

## SECTION 16: 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.

## · Relevant phrases

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

# Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

\* Data compared to the previous version altered.

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# **Annex: Exposure scenario**

- Short title of the exposure scenario Formulation and packing/repacking of substances and mixtures
- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting worker exposure

Avoid contact with eves.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- · Other operational conditions affecting consumer exposure No special measures required.
- · Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

· Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Tightly sealed goggles

- · Measures for consumer protection Ensure adequate labelling.
- Environmental protection measures
- · Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.