



## Safety Data Sheet According to Regulation (EU) 830/2015

### 1079 Isoamyl Alcohol

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

##### 1.1 Product identifier

Name:

Isoamyl Alcohol

##### Synonym:

iso-Amyl Alcohol, Isobutylcarbinol, iso-Butylcarbinol, Isopentyl Alcohol, iso-Pentyl Alcohol, 3-Methyl-1-Butanol

**REACH Registration Number:** 01-2119493725-26-XXXX

##### 1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

##### 1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

##### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

#### 2. Identification of dangers

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

Flam. Liq. 3

Acute Tox. 4

STOT SE 3

Skin Irrit. 2

Eye Irrit. 2

## 2.2 Label elements:

### Hazard Pictograms



### Signal word

#### Hazard statements

H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

## 2.3 Other hazards:

No further relevant information available.

## 3. Composition/information on ingredients

### 3.1 Substances

Name: Isoamyl Alcohol

Formula: C<sub>5</sub>H<sub>11</sub>OH M.= 88,15 CAS [123-51-3]

EC number (EINECS): 204-633-5

EC index number: 603-006-00-7

REACH Registration Number: 01-2119493725-26-XXXX

### 3.2 Mixtures

## 4. First aid measures

### 4.1 Description of first aid measures

Never provide drink or induce vomiting in the event of loss of consciousness.

## **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**

### **Swallowing:**

Induce vomiting. Do not administer animal carbon. Do not drink milk. Call for medical help. Stomach lavage.

### **Inhaling:**

Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration.

### **Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

### **Eyes:**

Wash with plenty of water, keeping eyelids open. Seek medical assistance.

## **5. Firefighting measures**

### **5.1 Extinguishing media:**

Water. Carbon dioxide (CO<sub>2</sub>). Alcohol resistant foam. Dry powder.

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

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. Auf Rückzündung achten In the event of fire, toxic fumes may form.

### **5.3 Advice for firefighters:**

Suitable clothing and footwear.

## **6. Accidental release measures**

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

Do not inhale the fumes. Ensure adequate ventilation.

### **6.2 Environmental precautions:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

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

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

### **6.4 Reference to other sections**

Not applicable

## **7. Handling and storage**

### **7.1 Precautions for safe handling:**

No special indications.

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

Well sealed containers. In well ventilated premises. Away from sources of ignition and heat.

**Recommended storage temperature:** Room temperature.

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

No more relevant data available

# **8. Exposure controls/personal protection**

## **8.1 Control parameters:**

VLA-EC: 125 ppm = 458 mg/m<sup>3</sup> VLA-ED: 100 ppm = 366 mg/m<sup>3</sup>  
PNECFreshwater: 0,255 ppm PNECMarine water: 0,0255 ppm PNECSporadic release: 2,55 ppm PNECFreshwater Sediment: 1,05 ppm PNECMarine water Sediment: 0,105 ppm PNECSoil: 0,061 ppm PNECPurifying plant: 37 ppm  
DNELWorkers Inhalation, acute (local): 292 mg/m<sup>3</sup> DNELPopulation Inhalation, long term (local): 15,4 mg/m<sup>3</sup> DNELPopulation Inhalation, long term (systemic): 15,4 mg/m<sup>3</sup> Population Inhalation, short term (acute): 256,4 mg/m<sup>3</sup> Population, oral, long term (systemic): 25 ppm

## **8.2 Exposure controls**

Ensure good ventilation and renewal of the air in the premises.

Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter A3.

Hand protection:

Use suitable gloves (neopren, nitrile)

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.

Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

# **9. Physical and chemical properties**

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

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: -117,2 °C

Initial boiling point and boiling range: 131 °C

Flash point: 42 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 8 %(V) / 1,2 %(V)

Vapour pressure: 3 hPa (20 °C)

Vapour density: N/A  
Relative density: (20/4) 0,809 g/ml  
Solubility: 25 g/l in water ( 20 °C )  
Partition coefficient: n-octanol/water:  
N/A  
Auto-ignition temperature: 340 °C  
Decomposition temperature: N/A  
Kinematic viscosity: N/A  
Dynamic viscosity:  
N/A

## **9.2 Other information**

No more relevant data available

## **10. Stability and reactivity**

### **10.1 Reactivity**

No specific data.

### **10.2 Chemical stability:**

The gases/fumes can form explosive mixtures with the air.

### **10.3 Possibility of hazardous reactions**

No specific data.

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

The product is chemically stable under standar ambient conditions (room temperature).

### **10.5 Incompatible materials:**

Alkaline metals. Alkali-earth metals. Oxidant agents.

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

No specific data.

## **11. Toxicological information**

### **11.1 Information on toxicological effects**

Acute toxicity:

LD50 oral rat : 1.300 mg/kg

LD50 skn rbt : 3.212 mg/kg

TC L0 inh man : 150 ppm

Dangerous effects for health:

If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: irritations Risk of cutaneous absorption. Through contact with the eyes: Irritations to the mucosae sight disorders If it is absorbed in large quantities: May cause: effects on the central nervous system nausea headaches vertigo ataxia (motor coordination disorders)

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Algae (Scenedesmus) 280 mg/l

Classification:

Toxic

Crustaceans (Daphnia magna) 440 mg/l

Classification:

Highly toxic

Fish 479 mg/l

Classification:

Highly toxic

#### **- Receptor medium:**

Risk for the water environment

Medium

Risk for the land environment

Low

#### **- Observations:**

Acute ecotoxicity in line with the dumping concentration.

### **12.2 Persistence and Degradability :**

#### **- Test:**

#### **- Biotic degradation classification:**

BOD5/COD

Biodegradability

#### **- Abiotic degradation depending on pH:**

#### **- Observations:**

Data not available.

### **12.3 Bioaccumulative potential:**

#### **- Test:**

#### **- Bioaccumulation:**

Risk

#### **- Observations:**

Data not available.

### **12.4 Mobility in soil :**

Data not available.

### **12.5 Assessment PBT and MPMB :**

Data not available.

### **12.6 Other adverse effects:**

Product hardly pollutant for water.

Do not allow it to enter soils or water channels.

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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## **14. Transport information**

### **14.1 UN number**

UN1105

### **14.2 UN proper shipping name**

PENTANOLS

### **14.3 Transport hazard class(es)**

3

### **14.4 Packing group**

ADR/IMDG: III

IATA: III

### **14.5 Environmental hazards**

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

Not applicable

### **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

## **15. Regulatory information**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **15.2 Chemical safety assessment**

Not applicable

## **16. Other information**

**Other precautionary statements**

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P370+P378 In case of fire: Use for extinction.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

P405 Store locked up.

P264 Wash...thoroughly after handling.

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.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

Version and revision date : 6 07.10.2017

Date published: 07.10.2017

In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.