

# Material Safety Data Sheet



iso-AMYL ALCOHOL GR

REVISION : 00  
DATE OF ISSUE : 01-07-2012  
SUPERSEDES : Nil

Product Code : 21830

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

### **1.1. Product identifier**

Trade name : iso-AMYL ALCOHOL GR 99.0%

Product code : 21830

Identification of the product : Amyl alcohol (except tert-pentanol)

CAS No : 123- 51- 3

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

Use : Industrial. For professional use only.

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

Company identification : MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : [info@molychem.net](mailto:info@molychem.net)

Works: Plot No./9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
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## **2. Hazards identification -DSD**

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

Classification EC 67/548 or EC 1999/45

Classification : R10

Xn; R20

R66

Xi; R37

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

**Health hazards** : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -Category 3 - Warning (CLP : STOT SE 3) H335

Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

**Physical hazards** : Flammable liquids - Category 3 - Warning (CLP : Flam. Liq. 3) H226

### **2.2. Label elements**

**Labelling EC 67/548 or EC 1999/45**

**Symbol(s)** : Xn : Harmful

**R Phrase(s)** : R10 : Flammable.

R20 : Harmful by inhalation.

R37 : Irritating to respiratory system.

R66 : Repeated exposure may cause skin dryness or cracking.

**S Phrase(s)** : S2 : Keep out of the reach of children.

S46 : If swallowed seek medical advice immediately and show this container or label.

**Labelling Regulation EC 1272/2008 (CLP)**

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**Signal words** : Warning

**Hazard statements** : H226 : Flammable liquid and vapour.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.

## **Precautionary statements**

• **General** : P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

• **Prevention** : P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.

P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.

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

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

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

P233: Keep container tightly closed.

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

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

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

• **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.

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

P405: Store locked up.

• **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## **2.3. Other hazards**

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## **3. Composition/information on ingredients**

**Substance / Preparation** : Amyl alcohol (except tert-pentanol)

CAS No : 123- 51- 3

Substance.

Contains no other components or impurities which will influence the classification of the product.

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## **4. First aid measures**

### **4.1. Description of first aid measures**

**Inhalation** : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact** : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.

**Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**Ingestion** : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

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

**Symptoms relating to use** : Danger of serious damage to health by prolonged exposure through inhalation. May cause respiratory irritation.

Repeated exposure may cause skin dryness or cracking.

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

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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

### **5.1. Extinguishing media**

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

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

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

### **5.3. Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## **6. Accidental release measures**

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

**For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.

**Technical measures** : Use special care to avoid static electric charges.

**Special precautions** : Remove ignition sources. No naked lights. No smoking.

**For non-emergency personnel** : Evacuate unnecessary personnel.

### **6.2. Environmental precautions**

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**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

## 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

## 7. Handling and storage

### 7.1. Precautions for safe handling

**Handling** : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Handle empty containers with care because residual vapours are flammable. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray. Take precautionary measures against static discharge.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment. Use only nonsparking tools.

**Special precautions** : No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.

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

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

### 7.3. Specific end use(s)

**Specific end use(s)** : None.

## 8. Exposure controls/personal protection

### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

### 8.2. Control parameters

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**Occupational Exposure Limits** : No data available.

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

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

**Physical state at 20 °C** : Liquid.

**Odour** : N/A

**Odour threshold** : No data available.

**pH value** : No data available.

**Melting point [°C]** : -117 °C

**Decomposition point [°C]** : N/A

**Critical temperature [°C]** : N/A

**Auto-ignition temperature [°C]** : N/A

**Flammability (solid, gas)** : N/A

Flammable liquid and vapour.

**Flash point [°C]** : 43 °C

**Boiling point [°C]** : 130 °C

**Initial boiling point [°C]** : N/A

**Final boiling point [°C]** : N/A

**Evaporation rate** : N/A

**Vapour pressure [20°C]** : 3 hPa at 20 °C

**Vapour pressure mm/Hg** : N/A

**Vapour density** : 3,04

**Density [g/cm<sup>3</sup>]** : 0,801

**Relative density, gas (air=1)** : 0,809

**Relative density, liquid (water=1)** : N/A

**Solubility in water [% weight]** : N/A

**Solubility in water** : N/A

**Log Pow octanol / water at 20°C** : No data available.

**Solubility** : 5.6 at 25 g/l at 20

**Viscosity at 40°C [mm<sup>2</sup>/s]** : N/A

### **9.2. Other information**

**Explosive properties** : N/A

**Explosion limits - upper [%]** : 9,00%

**Explosion limits - lower [%]** : 1,20%

**Oxidising properties** : No data available.

## **10. Stability and reactivity**

### **10.1. Reactivity**

**Reactivity** : Not established.

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## 10.2. Chemical stability

**Chemical stability** : Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

**Hazardous reactions** : Not established.

## 10.4. Conditions to avoid

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

## 10.5. Incompatible materials

**Materials to avoid** : Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

- **Inhalation** : Harmful if inhaled.
  - **Dermal** : Based on available data, the classification criteria are not met.
  - **Ingestion** : Based on available data, the classification criteria are not met.
- Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : May cause respiratory irritation.

Repeated exposure may cause skin dryness or cracking.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Based on available data, the classification criteria are not met.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

## 12. Ecological information

### 12.1. Toxicity

**Toxicity information** : Not established.

### 12.2. Persistence - degradability

**Persistence - degradability** : Biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : Not established.

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## 12.4. Mobility in soil

Mobility in soil : Not established.

## 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## 12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.

## 13. Disposal considerations

### 13.1. Waste treatment methods

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Special precautions** : Handle empty containers with care because residual vapours are flammable.

## 14. Transport information

### 14.1. Land transport (ADR-RID)

**Proper shipping name** : PENTANOLS

**UN N°** : 1105

**H.I. nr** : 30

**ADR - Class** : 3

**Labelling - Transport** : 3 : Flammable liquid.

**ADR - Classification code** : F1

**ADR - Group** : III

**ADR - Packing instructions** : P001 R001 LP001

**ADR - Limited Quantity** : 5 L

**ADR - Tunnel code**

: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

### 14.2. Sea transport (IMDG) [English only]

**Proper shipping name** : PENTANOLS

**UN N°** : 1105

**IMO-IMDG - Class or division** : 3 : Flammable liquid.

**IMO-IMDG - Packing group** : III

**IMO- IMDG - Packing instructions** : P001 LP01

**IMO-IMDG - Limited quantities** : 5 L

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**IMO-IMDG - Marine pollution :** No

**EMS-Nr :** F-E S-D

**14.3. Air transport (ICAO-IATA) [English only]**

**Proper shipping name :** PENTANOLS

**UN N° :** 1105

**IATA - Class or division :** 3 : Flammable liquid.

**IATA - Packing group :** III

**IATA - Passenger and Cargo Aircraft :** ALLOWED

**- Passenger and Cargo - Packing :** 355

**instruction**

**- Passenger and Cargo - Maximum :** 60 L

**Quantity/Packing**

**IATA - Cargo only :** ALLOWED

**- Cargo only - Packing instruction :** 366

**- Cargo only - Maximum Quantity/ :** 220 L

**Packing**

**IATA - Limited Quantities :** 10 L

**ERG-Nr :** 3L

## **15. Regulatory information**

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

**Safety, health and environmental :** Ensure all national/local regulations are observed.  
**regulations/legislation specific for the substance or mixture**

**REACH Restrictions - Annex XVII :** The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV :** The components of this product are not subject to authorization.

## **15.2. Chemical Safety Assessment**

**Chemical Safety Assessment :** It has not been carried out.

## **16. Other information**

**Abbreviations and acronyms :** PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative **Sources of key data used :**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**List of relevant R phrases (heading 3) :** R10 : Flammable.

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R20 : Harmful by inhalation.

R37 : Irritating to respiratory system.

R66 : Repeated exposure may cause skin dryness or cracking.

**List of full text of H-statements in :** H226 : Flammable liquid and vapour.

**section 3** H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.

EUH066: Repeated exposure may cause skin dryness or cracking.

**Further information :** None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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## End of document

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**For questions contact:** MOLYCHEM

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