

ISOBUTANOL

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Compilation date: 11/02/2014

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ISOBUTANOL

CAS number: 78-83-1
Product code: A69462

Synonyms: 2-METHYLPROPAN-1-01

2-METHYL-1-PROPANOL ISO-BUTYL ALCOHOL ISO-BUTANOL

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

1.3. Details of the supplier of the safety data sheet

Company name: Philip Harris Ltd

2 Gregory Street

Hyde

Cheshire SK14 4HR

United Kingdom

Tel: +44 (0)845 1200 506 **Fax:** +44 (0)161 367 2140

Email: enquiries@philipharris.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 845 1200 506

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Flam. Liq. 3: H226; Skin Irrit. 2: H315; Eye Dam. 1: H318; STOT SE 3: H335; STOT SE 3:

H336

Classification under CHIP: -: R10; Xi: R37/38; Xi: R41; -: R67

Most important adverse effects: Flammable liquid and vapour. May cause respiratory irritation. Causes skin irritation.

Causes serious eye damage. May cause drowsiness or dizziness.

2.2. Label elements

Label elements under CLP:

Hazard statements: H226: Flammable liquid and vapour.

H335: May cause respiratory irritation.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H336: May cause drowsiness or dizziness.

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Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS05: Corrosion

GHS07: Exclamation mark







Precautionary statements: P210: Keep away from . - No smoking.

P243: Take precautionary measures against static discharge.

P280: Wear.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P309: IF exposed or if you feel unwell:

P310: Immediately call a POISON CENTER or doctor.

2.3. Other hazards

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: ISOBUTANOL

Contains: Molecular Formula: C4H10O

Molecular Weight (g/mol): 74.12g/mol

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: After contact with skin, wash immediately with plenty of water and soap. Remove

contaminated, saturated clothing immediately. In case of skin reactions, consult a

Doctor

Eye contact: Bathe the eye with running water for 15 minutes. Protect Uninjured eye. Remove contact

lenses, if present and easy to do. Consult a doctor.

Ingestion: Immediately call the POISON CENTRE or a doctor. Rinse mouth thoroughly with water.

Do not induce vomiting. Give nothing to eat or drink.

Inhalation: Immediately call the POISON CENTRE or a doctor. Move to fresh air in case of

accidental inhalation of vapours. Keep Patient warm. If breathing is irregular or stopped,

administer artifical respiration.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray ABC-Powder Carbon Dioxide (CO2) Nitrogen

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In case of fire may be liberated: Carbon Dioxide (CO2) Carbon monoxide

5.3. Advice for fire-fighters

Advice for fire-fighters: DO NOT fight fire when fire reaches explosives. Wear self-contained breathing

apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Use

personal protection equipment. The accumulation in low lying or closed rooms can cause increased danger of fire and explosion. The vapour of the product is heavier than air and may accumulate below ground level in pits, channels & basements in higher concentrations. Avoid breathing vapors, mist or gas. Remove sources of ignition. In case

of major fire and large quantities: Remove persons to safety.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Spilled product must never be returned to the original container for recycling. Prevent

spread over a wide area (e.g. by containment or oil barriers). Soak up inert absorbent

and dispose as waste requiring special attention.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered,

arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventillated by technical

[cont...]

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means. Usual measures for fire prevention. Take precautionary measures against static discharge. Keep away from sources of ignition - no smoking. Handle under (Gas): Nitrogen. Protect from moisture.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Storage temperature 15-25°C Tightly Closed. Dry. Store in a cool, dry place. Keep

container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Technical measures and the application of suitable work processes have priority over

personal protection equipment. If handle uncovered, arrangements with local exhaust

ventilation have to be used.

Respiratory protection: Respiratory protection (filtering half face mask DIN EN 149) is required at aerosol or

mist formation.

Hand protection: By short-term hand contact wear Nitrile Rubber Gloves, 0.12mm thick with a

breakthrough time of 60-120 mins. For long term hand contact wear nitrile rubber

gloves, 0.38mm thick with a breakthrough time of 480mins.

Eye protection: Safety glasses with side-shields.

Skin protection: Wash hands before breaks and after work. Avoid contact with skin and eyes. Flame

retardent antistatic protective clothing. When using do not eat, drink or smoke.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: No data available

Evaporation rate: No data available

Oxidising: No data available

Solubility in water: 80 g/l (20°C)

Also soluble in: No data available.

Viscosity: No data available

Viscosity test method: No data available.

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Boiling point/range°C: 107.9°C (1013 hPa) **Melting point/range°C:** -108°C

Flammability limits %: lower: 1.2 upper: 12

Flash point°C: 28°C Part.coeff. n-octanol/water: 0.76 (20°C)

Autoflammability°C: 430°C Vapour pressure: 10,6 hPa (20°C)

Relative density: 0.802 g/cm³ (20°C)

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: No data available.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: No data available

10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

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Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: Partition coefficient: n-octanol/water 0.76 (20°C)

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose according to legislation. Consult the appropriate local waste disposal expert

about waste disposal.

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1212

14.2. UN proper shipping name

Shipping name: ISOBUTANOL (ISOBUTYL ALCOHOL)

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

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14.6. Special precautions for user

Tunnel code: D/E
Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H318: Causes serious eye damage. H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

R10: Flammable.

R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes.

R67: Vapours may cause drowsiness and dizziness.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.