1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

3-Methyl-2-butanol Product name

2. HAZARDS IDENTIFICATION

According to Regulation (EC) No1272/2008

Classification of the substance or mixture

Flammable liquids (Category 3)

Specific target organ toxicity - single exposure (Category 3)

Acute toxicity, Inhalation (Category 4)

Flammable. Harmful by inhalation. Irritating to respiratory system. Repeated exposure may cause skin dryness

According to European Directive 67/548/EEC as amended.

or cracking.

Label elements

Signal word

Pictogram

Hazard statement(s) Flammable liquid and vapour. H226 H332

Harmful if inhaled. H335 May cause respiratory irritation. **EUH066** Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s) P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Warning

Hazard symbol(s)

Harmful Xn R-phrase(s)

R10 Flammable.

R20 Harmful by inhalation. R37

Irritating to respiratory system. Repeated exposure may cause skin dryness or cracking. R66

S-phrase(s) S46 If swallowed, seek medical advice immediately and show this container or label.

C5H12O

Other hazards - none 3. COMPOSITION/INFORMATION ON INGREDIENTS

Isopropyl methyl carbinol Synonyms

Molecular Weight 88,15 g/mol

CAS-No. EC-No.

3-Methyl-2-butanol 598-75-4 209-950-2

H335, EUH066 Xn, R10 - R20 - R37 - R66 For the full text of the H-Statements mentioned in this Section, see Section 16. 4. FIRST AID MEASURES

Classification

Flam. Liq. 3; STOT SE 3;

Acute Tox. 4; H226, H332,

Concentration

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Consult a physician. Show this safety data sheet to the doctor in attendance.

In case of skin contact

General advice

Formula

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

If swallowed

In case of eye contact

Flush eyes with water as a precaution.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Suitable extinguishing media For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires,

Further information

5. FIRE-FIGHTING MEASURES

Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray;

Personal precautions Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all

concentrations. Vapours can accumulate in low areas.

6. ACCIDENTAL RELEASE MEASURES

Use water spray to cool unopened containers.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

7. HANDLING AND STORAGE

Precautions for safe handling

Environmental precautions

Methods and materials for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive

charge. **Conditions for safe storage**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

resealed and kept upright to prevent leakage. Store in cool place.

Personal protective equipment **Respiratory protection** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with

engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the

multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves

standard EN 374 derived from it. Eye protection

Hand protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the

product. 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form

рΗ

Melting point

Boiling point

Flash point

Materials to avoid

Acute toxicity no data available

Strong oxidizing agents, Reducing agents

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Inhalation: Irritating to respiratory system.

Upper explosion limit

Hygiene measures

Colour colourless Safety data

Ignition temperature no data available Lower explosion limit no data available

3 hPa at 20 °C Vapour pressure 0,818 g/mL at 25 °C Density Water solubility no data available 10. STABILITY AND REACTIVITY Chemical stability Stable under recommended storage conditions. Conditions to avoid Heat, flames and sparks.

clear

no data available

no data available

34 °C - closed cup

no data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides

112 °C - lit.

Serious eye damage/eye irritation no data available Respiratory or skin sensitization

Skin corrosion/irritation

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Aspiration hazard no data available

Potential health effects

Additional Information RTECS: no data available

no data available

Mobility in soil no data available

Product

12. ECOLOGICAL INFORMATION

PBT and vPvB assessment

Inhalation

Ingestion

May cause respiratory irritation.

Signs and Symptoms of Exposure Prolonged or repeated exposure may cause: Nausea, Headache, Vomiting, Repeated exposure may cause skin dryness or cracking.

Toxicity no data available

no data available Other adverse effects no data available 13. DISPOSAL CONSIDERATIONS

ADR/RID UN-Number: 1105 Class: 3 Proper shipping name: PENTANOLS

Proper shipping name: Pentanols 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 16. OTHER INFORMATION Text of H-code(s) and R-phrase(s) mentioned in Section 3

Repeated exposure may cause skin dryness or cracking. Flammable liquids Flam. Liq. Flammable liquid and vapour. H226 Harmful if inhaled.

> Harmful Flammable. Harmful by inhalation. Irritating to respiratory system.

R66 Repeated exposure may cause skin dryness or cracking.

WARRANTY:

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any www.lookchem.com damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Germ cell mutagenicity no data available Carcinogenicity

> May be harmful if absorbed through skin. May cause skin irritation. Repeated Skin exposure may cause skin dryness or cracking. May cause eye irritation. Eyes

Persistence and degradability no data available **Bioaccumulative potential**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Packing group: III

Packing group: III

Packing group: III

EMS-No: F-E, S-D

Toxic if inhaled. Causes respiratory tract irritation.

May be harmful if swallowed.

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging Dispose of as unused product. 14. TRANSPORT INFORMATION

IMDG UN-Number: 1105 Class: 3 Proper shipping name: PENTANOLS Marine pollutant: No

IATA UN-Number: 1105 Class: 3

Acute toxicity Acute Tox. **EUH066**

H332

May cause respiratory irritation. H335 STOT SE Specific target organ toxicity - single exposure

Xn R10 R20 R37

Further information