2. HAZARDS IDENTIFICATION Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Flammable liquids (Category 1) Skin irritation (Category 2) Eye irritation (Category 2)

Aspiration hazard (Category 1)

Extremely flammable. Irritating to eyes, respiratory system and skin. Harmful: may cause lung damage if

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

swallowed.

Specific target organ toxicity - single exposure (Category 3)

Pictogram

Label elements

Signal word

P331

F+

R65

CAS-No.

Hazard symbol(s)

Hazard statement(s) H224 H304

May be fatal if swallowed and enters airways. H315 Causes skin irritation.

Danger

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statement(s) P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P261

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Do NOT induce vomiting.

Harmful: may cause lung damage if swallowed.

Classification

Concentration

Extremely flammable

Extremely flammable liquid and vapour.

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Harmful Xn R-phrase(s)

Extremely flammable. R12 Irritating to eyes, respiratory system and skin. R36/37/38

S-phrase(s) S16 Keep away from sources of ignition - No smoking. S26

3. COMPOSITION/INFORMATION ON INGREDIENTS

EC-No.

In case of contact with eyes, rinse immediately with plenty of water and If swallowed, do not induce vomiting: seek medical advice immediately S62

and show this container or label. Other hazards - none

: C5H10 Formula Molecular Weight : 70,13 g/mol

3-Methylbut-1-ene 563-45-1 209-249-1 Flam. Liq. 1; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Asp. Tox. 1; H224, H304, H315, H319,

H335 F+, Xn, R12 - R36/37/38 -R65 For the full text of the H-Statements mentioned in this Section, see Section 16. 4. FIRST AID MEASURES General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhale d

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed

Wear self contained breathing apparatus for fire fighting if necessary.

explosive concentrations. Vapours can accumulate in low areas.

opened must be carefully resealed and kept upright to prevent leakage.

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

5. FIRE-FIGHTING MEASURES

Further information

Personal precautions

13).

Suitable extinguishing media

Consult a physician.

apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. Special protective equipment for fire-fighters

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

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

earth, vermiculite) and place in container for disposal according to local / national regulations (see section

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

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

6. ACCIDENTAL RELEASE MEASURES

Use water spray to cool unopened containers.

Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous

Environmental precautions

7. HANDLING AND STORAGE

Precautions for safe handling

Conditions for safe storage

Personal protective equipment

Respiratory protection

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Handle and open container with care. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to 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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

standards such as NIOSH (US) or CEN (EU).

Eye protection Face shield and safety glasses Skin and body protection

work place.

Appearance

Form

Colour

Safety data

pН

Melting point

Ignition temperature

Lower explosion limit

Vapour pressure

Water solubility

Chemical stability

10. STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Density

Hand protection

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 9. PHYSICAL AND CHEMICAL PROPERTIES

Choose body protection according to the amount and concentration of the dangerous substance at the

Boiling point 20 °C - lit. -57 °C - closed cup Flash point

clear, liquid

colourless

no data available

no data available

1.031,8 hPa at 20 °C

3.011,5 hPa at 55 °C

0,627 g/cm3 at 25 °C

no data available

1,4%(V)

-168,5 - -168 °C - lit.

Conditions to avoid Heat, flames and sparks. Materials to avoid Oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides 11. TOXICOLOGICAL INFORMATION **Acute toxicity** no data available

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 no data available

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Inhalation - May cause respiratory irritation.

causes a human aspiration toxicity hazard.

Skin corrosion/irritation

Germ cell mutagenicity

Serious eye damage/eye irritation

Respiratory or skin sensitization

no data available

no data available

no data available

no data available

Carcinogenicity

no data available

Aspiration hazard

Potential health effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs **Ingestion** May be harmful if absorbed through skin. Causes skin irritation. Skin Eyes Signs and Symptoms of Exposure Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. **Additional Information** RTECS: Not available

12. ECOLOGICAL INFORMATION

Persistence and degradability

Bioaccumulative potential

PBT and vPvB assessment

13. DISPOSAL CONSIDERATIONS

Toxicity

no data available

no data available

no data available

no data available

Product

IMDG

UN-Number: 2561 Class: 3

UN-Number: 2561 Class: 3

H315

H319

H335

F+

Skin Irrit.

STOT SE

Further information

Other adverse effects

no data available Mobility in soil no data available

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a

Packing group: I

Packing group: I

EMS-No: F-E, S-D

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it

and cause damage.

Causes eye irritation.

Contaminated packaging Dispose of as unused product. 14. TRANSPORT INFORMATION ADR/RID UN-Number: 2561 Class: 3 Packing group: I

licensed professional waste disposal service to dispose of this material.

Proper shipping name: 3-METHYL-1-BUTENE Marine pollutant: No **IATA**

Proper shipping name: 3-METHYL-1-BUTENE

Flam. Liq. Flammable liquids Extremely flammable liquid and vapour. H224 May be fatal if swallowed and enters airways. H304

Skin irritation

Proper shipping name: 3-Methyl-1-butene 15. REGULATORY INFORMATION

16. OTHER INFORMATION

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

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Asp. Tox. Aspiration hazard Eye Irrit. Eye irritation

> Xn Harmful R12 Extremely flammable. R36/37/38 Irritating to eyes, respiratory system and skin. R65 Harmful: may cause lung damage if swallowed.

Extremely flammable

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Specific target organ toxicity - single exposure

WARRANTY: 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.

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