### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008 Flammable liquids (Category 2)

Skin sensitization (Category 1)

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

Highly flammable. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Pictogram

Signal word Danger

Hazard statement(s)

Highly flammable liquid and vapour. H225 May cause an allergic skin reaction. H317

Precautionary statement(s)

P280

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves.

Hazard symbol(s) **Irritant** Xi

N Dangerous for the environment F Highly flammable

R-phrase(s)

R11 Highly flammable. R43 May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the R51/53

aquatic environment.

S-phrase(s) S61 Avoid release to the environment. Refer to special instructions/ Safety data

sheets. S36/37 Wear suitable protective clothing and gloves. Other hazards - none

Formula Molecular Weight 84,16 g/mol

Classification Concentration 2-Ethylbut-1-ene

H225, H317 Xi, N, F, R11 - R43 - R51/53

Flam. Liq. 2; Skin Sens. 1;

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

In case of eye contact

If inhaled

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

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

5. FIRE-FIGHTING MEASURES

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.

**Further information** 

6. ACCIDENTAL RELEASE MEASURES **Personal precautions** 

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

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

7. HANDLING AND STORAGE

Precautions for safe handling Avoid inhalation of vapour or mist.

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

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with

#### **Conditions for safe storage** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are

charge.

Personal protective equipment

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

colourless

315 °C

-10 °C - closed cup

Hazardous decomposition products formed under fire conditions. - Carbon oxides

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

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

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

## Handle with gloves. Eye protection

**Respiratory protection** 

Face shield and safety glasses Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Appearance** Form liquid

Colour

Flash point

Ignition temperature

Safety data

9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point -131,5 - -131 °C - lit. 64 - 65 °C - lit. Boiling point

#### Lower explosion limit no data available Upper explosion limit no data available

10. STABILITY AND REACTIVITY Chemical stability Stable under recommended storage conditions. Conditions to avoid Heat, flames and sparks. Materials to avoid

Serious eye damage/eye irritation no data available

Skin corrosion/irritation

Strong oxidizing agents

Acute toxicity no data available

no data available

no data available

Carcinogenicity

no data available

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

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

May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if swallowed. Ingestion Skin May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation.

Toxicity to fish Persistence and degradability no data available

**Toxicity** 

**Product** 

**Additional Information** RTECS: Not available

12. ECOLOGICAL INFORMATION

no data available Other adverse effects Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

PBT and vPvB assessment

13. DISPOSAL CONSIDERATIONS

Contaminated packaging

ADR/RID UN-Number: 3295 Class: 3

**IATA** UN-Number: 3295 Class: 3

Marine pollutant: No

H317 May cause an allergic skin reaction. Skin Sens. Skin sensitization F Highly flammable

Xi **Irritant** R11 Highly flammable.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic R51/53environment.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS C6H12 CAS-No. EC-No.

760-21-4 212-078-5

4. FIRST AID MEASURES General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

In case of skin contact

If swallowed

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,

Wear self contained breathing apparatus for fire fighting if necessary. Use water spray to cool unopened containers.

explosive concentrations. Vapours can accumulate in low areas. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the

environment must be avoided.

Special protective equipment for fire-fighters

earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Recommended storage temperature: 2 - 8 °C 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Hand protection

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

pН no data available

0,689 g/cm3 at 25 °C Density Water solubility no data available Partition coefficient: log Pow: 3,262 n-octanol/water

Respiratory or skin sensitization

May cause allergic skin reaction.

Germ cell mutagenicity

Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Potential health effects Inhalation Eyes

**Bioaccumulative potential** 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: II

Packing group: II

Packing group: II

EMS-No: F-E, S-D

LC50 - Pimephales promelas (fathead minnow) - 8,5 mg/l - 96,0 h

Dispose of as unused product. 14. TRANSPORT INFORMATION

licensed professional waste disposal service to dispose of this material.

Proper shipping name: HYDROCARBONS, LIQUID, N.O.S. **IMDG** UN-Number: 3295 Class: 3

Proper shipping name: Hydrocarbons, liquid, n.o.s. 15. REGULATORY INFORMATION

> N Dangerous for the environment

Flammable liquids Flam. Liq.

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3 H225 Highly flammable liquid and vapour.

Proper shipping name: HYDROCARBONS, LIQUID, N.O.S.

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

R43 May cause sensitization by skin contact.

**Further information** For R&D use only. Not for drug, household or other uses. WARRANTY: