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

5,6-Dihydro-2 *H* -pyran-2-one Product name

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Flammable liquids (Category 3)

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

Label elements Pictogram

Signal word

Warning Hazard statement(s)

H226

Flammable liquid and vapour. none

Precautionary statement(s) Hazard symbol(s) none R-phrase(s)

R10

S-phrase(s)

S23 S24/25

Formula

Avoid contact with skin and eyes. Other hazards - none

Flammable.

C5H6O2

Do not breathe vapour.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight 98,1 g/mol

CAS-No. EC-No.

5,6-Dihydro-2H-pyran-2-one 3393-45-1 Flam. Liq. 3; H226 R10

Classification

Concentration

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

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray;

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form

Flush eyes with water as a precaution.

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

Consult a physician. 5. FIRE-FIGHTING MEASURES

> solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. Special protective equipment for fire-fighters

Further information Use water spray to cool unopened containers.

Suitable extinguishing media

6. ACCIDENTAL RELEASE MEASURES

Wear self contained breathing apparatus for fire fighting if necessary.

Personal precautions

Environmental precautions Do not let product enter drains.

13). Keep in suitable, closed containers for disposal.

explosive concentrations. Vapours can accumulate in low areas.

Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section

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

charge. **Conditions for safe storage**

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

opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 2 - 8 °C

multi-purpose combination (US) or type ABEK (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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

respirator. Use respirators and components tested and approved under appropriate government

Personal protective equipment

Respiratory protection

Hand protection

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. Eye protection Face shield and safety glasses

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

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

Skin and body protection

9. PHYSICAL AND CHEMICAL PROPERTIES

clear, liquid

light yellow

no data available

103 °C at 13 hPa - lit.

46 °C - closed cup

no data available

no data available

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

Appearance Form

Colour

Melting point

Boiling point

Flash point

Materials to avoid Strong oxidizing agents

Ignition temperature

Lower explosion limit

the end of workday.

Safety data no data available рΗ

Upper explosion limit no data available 1,139 g/cm3 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.

Acute toxicity no data available Skin corrosion/irritation

no data available

no data available

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Serious eye damage/eye irritation

Respiratory or skin sensitization

no data available Germ cell mutagenicity no data available

probable, possible or confirmed human carcinogen by IARC.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

May be harmful if swallowed.

May cause eye irritation.

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

May be harmful if absorbed through skin. May cause skin irritation.

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Reproductive toxicity no data available

no data available

no data available

Carcinogenicity

Aspiration hazard no data available

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Skin Eyes Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

Additional Information

RTECS: Not available

no data available

no data available

Mobility in soil no data available

no data available

Potential health effects

Inhalation

Ingestion

investigated.

12. ECOLOGICAL INFORMATION **Toxicity**

Bioaccumulative potential no data available

Persistence and degradability

PBT and vPvB assessment no data available Other adverse effects

Product This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional

13. DISPOSAL CONSIDERATIONS

waste disposal service to dispose of this material. **Contaminated packaging** Dispose of as unused product.

ADR/RID

Packing group: III Proper shipping name: Ketones, liquid, n.o.s. (5,6-Dihydro-2H-pyran-2-one)

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

IATA UN-Number: 1224 Class: 3

Proper shipping name: KETONES, LIQUID, N.O.S. (5,6-Dihydro-2H-pyran-2-one) **IMDG** Packing group: III

16. OTHER INFORMATION Text of H-code(s) and R-phrase(s) mentioned in Section 3 Flammable liquids

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

Flammable liquid and vapour.

WARRANTY:

Packing group: III

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 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.

EMS-No: F-E, S-D

www.lookchem.com

14. TRANSPORT INFORMATION

UN-Number: 1224 Class: 3

UN-Number: 1224 Class: 3 Proper shipping name: KETONES, LIQUID, N.O.S. (5,6-Dihydro-2H-pyran-2-one) Marine pollutant: No

15. REGULATORY INFORMATION

Flam. Liq. H226 **Further information**