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

β-Ionone Product name

Classification of the substance or mixture

2. HAZARDS IDENTIFICATION

According to Regulation (EC) No1272/2008

Skin irritation (Category 2)

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

Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Pictogram

Warning Hazard statement(s)

Signal word

H315 Causes skin irritation.

Dangerous for the environment Xi **Irritant**

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

Other hazards - none

Avoid release to the environment. Refer to special instructions/ Safety data

Skin Irrit. 2; H315

Concentration

3. COMPOSITION/INFORMATION ON INGREDIENTS

4-(2,6,6-Trimethyl-1-cyclohexenyl)-3-buten-2-one Synonyms C13H20O

192,3 g/mol Classification

Irritating to skin.

sheets.

CAS-No. EC-No. (E)-4-(2,6,6-Trime thyl-1-cyclohexen-1-yl)-3-buten-2-one 79-77-6 201-224-3

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

4. FIRST AID MEASURES

If inhaled

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

In case of skin contact

Flush eyes with water as a precaution.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed

7. HANDLING AND STORAGE **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Personal protective equipment

Hand protection 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

and amount of the dangerous substance at the specific workplace.

clear, liquid

light yellow

112 °C - closed cup

no data available

no data available

7

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

Respiratory protection

standard EN 374 derived from it. Eye protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection

impervious clothing, The type of protective equipment must be selected according to the concentration

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

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

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

Form

рН

Flash point

Ignition temperature

9. PHYSICAL AND CHEMICAL PROPERTIES **Appearance**

Colour Safety data

Melting point no data available 126 - 128 °C at 16 hPa - lit. Boiling point

Upper explosion limit no data available Density 0,945 g/cm3 at 25 °C Water solubility insoluble Partition coefficient: log Pow: 3,012 n-octanol/water 10. STABILITY AND REACTIVITY Chemical stability Stable under recommended storage conditions. **Conditions to avoid**

Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity Reproductive toxicity - Hamster - Oral

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

no data available Potential health effects May be harmful if inhaled. Causes respiratory tract irritation. Inhalation

Signs and Symptoms of Exposure

Additional Information RTECS: EN0500000 12. ECOLOGICAL INFORMATION

May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

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

LC50 - Pimephales promelas (fathead minnow) - 5,09 mg/l - 96.0 h

Packing group: III

Packing group: III

Packing group: III

EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((E)-4-(2,6,6-

no data available PBT and vPvB assessment no data available

Dispose of as unused product. 14. TRANSPORT INFORMATION

UN-Number: 3082 Class: 9

waste disposal service to dispose of this material. Contaminated packaging

Other adverse effects

Bioaccumulative potential

no data available

Mobility in soil

Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) **IMDG** UN-Number: 3082 Class: 9

UN-Number: 3082 Class: 9

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. ((E)-4-(2,6,6-Trimethyl-1cyclohexen-1-yl)-3-buten-2-one)

Dangerous for the environment

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

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 H315 Causes skin irritation. Skin Irrit. Skin irritation

Irritant

Irritating to skin.

environment.

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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

www.lookchem.com

Precautionary statement(s) none Hazard symbol(s)

R-phrase(s) R38 R51/53

S-phrase(s)

S61

Formula Molecular Weight

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

Wash off with soap and plenty of water. Consult a physician. In case of eye contact

5. FIRE-FIGHTING MEASURES Suitable extinguishing media Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

Environmental precautions

containers for disposal.

Conditions for safe storage 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. Store in cool place.

Lower explosion limit

no data available

Acute toxicity no data available

no data available

Carcinogenicity

no data available

Aspiration hazard

Ingestion

Skin

investigated.

Materials to avoid Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides 11. TOXICOLOGICAL INFORMATION

Respiratory or skin sensitization Germ cell mutagenicity

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure

Toxicity Toxicity to fish Persistence and degradability no data available

Toxic to aquatic life. 13. DISPOSAL CONSIDERATIONS **Product** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((E)-4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one) Marine pollutant: Marine pollutant **IATA**

ADR/RID

Further information

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R38 R51/53 **Further information**