Classification of the substance or mixture

2. HAZARDS IDENTIFICATION

According to Regulation (EC) No1272/2008

Flammable liquids (Category 3) Acute toxicity, Inhalation (Category 1) Acute toxicity, Oral (Category 3) Skin corrosion (Category 1B)

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

Flammable. Harmful if swallowed. Very toxic by inhalation. Causes burns. Label elements

Pictogram

Signal word Danger

Hazard statement(s) H226 Flammable liquid and vapour.

H301

H314

Causes severe skin burns and eye damage. H330 Fatal if inhaled.

Precautionary statement(s) Do not breathe dust/fume/gas/mist/vapours/spray. P260

P280

Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. P284

Very toxic

Causes burns.

120,53 g/mol

Toxic if swallowed.

P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. P310

R-phrase(s)

Hazard symbol(s)

T+

R34

Flammable. R10 Harmful if swallowed.

R22 R26

S-phrase(s) S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. S28

Wear suitable protective clothing, gloves and eye/face protection. S36/37/39 S45 In case of accident or if you feel unwell, seek medical advice immediately

Other hazards Lachrymator.

(show the label where possible).

Very toxic by inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS C4H5ClO2 Formula

CAS-No.

If inhaled

Molecular Weight

Allyl chloroformate 2937-50-0 220-916-6

EC-No.

For the full text of the H-Statements mentioned in this Section, see Section 16. 4. FIRST AID MEASURES

Classification

Flam. Liq. 3; Acute Tox. 1; Acute Tox. 3; Skin Corr. 1B;

H226, H301, H314, H330 T+, R10 - R22 - R26 - R34 Concentration

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

In case of skin contact Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

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

In case of eye contact

5. FIRE-FIGHTING MEASURES

Further information

Personal precautions

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

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

Suitable extinguishing media 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;

solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

concentrations. Vapours can accumulate in low areas.

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

Methods and materials for containment and cleaning up

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

6. ACCIDENTAL RELEASE MEASURES

Use water spray to cool unopened containers.

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

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.

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

Wear respiratory protection. 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 explosive

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hand protection

Skin and body protection

Vent periodically.

7. HANDLING AND STORAGE

Conditions for safe storage

Personal protective equipment

Respiratory protection

Recommended storage temperature: -20 °C

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).

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

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

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

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

standard EN 374 derived from it. Handle with gloves. Eye protection Tightly fitting safety goggles. Faceshield (8-inch minimum).

9. PHYSICAL AND CHEMICAL PROPERTIES **Appearance**

clear, liquid

colourless

no data available

no data available

no data available

no data available

437,0 hPa at 55 °C

252,9 hPa at 20 °C

Melting point Boiling point

Lower explosion limit

Upper explosion limit

Vapour pressure

Form

Colour

Safety data

рΗ

27 °C at 15 hPa - lit. 31 °C - closed cup Flash point no data available Ignition temperature

no data available 10. STABILITY AND REACTIVITY Chemical stability Stable under recommended storage conditions. Conditions to avoid Heat, flames and sparks. Materials to avoid Strong bases, acids, Alcohols, Amines

no data available Respiratory or skin sensitization no data available

no data available Aspiration hazard no data available

skin., Cough, Shortness of breath, Headache, Nausea **Additional Information** RTECS: LQ5775000

Signs and Symptoms of Exposure

12. ECOLOGICAL INFORMATION

PBT and vPvB assessment no data available Other adverse effects

14. TRANSPORT INFORMATION ADR/RID UN-Number: 1722 Class: 6.1 (3, 8) Proper shipping name: ALLYL CHLOROFORMATE

Contaminated packaging Dispose of as unused product.

Text of H-code(s) and R-phrase(s) mentioned in Section 3 Acute toxicity Acute Tox. Flammable liquids Flam. Liq.

H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H330 Fatal if inhaled.

R34 Causes burns. **Further information**

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

EMS-No: F-E, S-C

work place. Hygiene measures Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Density 1,134 g/cm3 at 20 °C Water solubility

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

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

May be fatal if inhaled. Material is extremely destructive to the tissue of the

mucous membranes and upper respiratory tract.

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and

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

Packing group: I

Harmful if swallowed. Causes burns.

Causes eye burns.

probable, possible or confirmed human carcinogen by IARC.

LD50 Oral - rat - 244 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. LC50 Inhalation - rat - 32,4 mg/m3 Remarks: Lungs, Thorax, or Respiration: Dyspnea. Skin corrosion/irritation no data available Serious eye damage/eye irritation

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Germ cell mutagenicity

Reproductive toxicity

no data available

Carcinogenicity

no data available

no data available

Inhalation

Ingestion

Skin

Eyes

Toxicity

no data available

no data available

Mobility in soil no data available

no data available

13. DISPOSAL CONSIDERATIONS

Potential health effects

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

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

Product Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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 waste disposal service to dispose of this material.

IMDG UN-Number: 1722 Class: 6.1 (3, 8)

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

16. OTHER INFORMATION

H226

R26

IATA UN-Number: 1722 Class: 6.1 (3, 8) Proper shipping name: Allyl chloroformate

Packing group: I Proper shipping name: ALLYL CHLOROFORMATE Marine pollutant: No

IATA Passenger: Not permitted for transport IATA Cargo: Not permitted for transport

15. REGULATORY INFORMATION

Skin corrosion Skin Corr. T+Very toxic R10 Flammable. R22 Harmful if swallowed.

Flammable liquid and vapour.

Very toxic by inhalation.

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.