# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

ProductName : 3-Chloro-1-butene

### 2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Highly flammable. May cause sensitization by skin contact.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

209-252-8

207-838-8

Formula : C4H7Cl

CAS-No. EC-No. Classification Concentration 3-Chlorobut-1-ene

>= 99,999 %

<= 0,001 %

563-52-0

F, Xi, R11 - R43

Xi, R36

**Sodium carbonate** 497-19-8

For the full text of the R-phrases 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 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

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

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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.

### Further information Use water spray to cool unopened containers.

concentrations. Vapours can accumulate in low areas.

6. ACCIDENTAL RELEASE MEASURES

### 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 explosive

Personal precautions

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

# 7. HANDLING AND STORAGE

Avoid inhalation of vapour or mist.

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

Metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Personal protective equipment

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

### respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection Face shield and safety glasses

controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use

Skin and body protection

clear, liquid

colourless

no data available

-27 °C - closed cup

no data available

no data available

62 - 65 °C

standard EN 374 derived from it. Handle with gloves.

the end of workday.

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

Form Colour

# Safety data no data available

Boiling point

Flash point

**Appearance** 

Lower explosion limit Upper explosion limit no data available Vapour pressure 204 hPa at 20 °C 0,9 g/mL at 25 °C Density Water solubility no data available Partition coefficient: log Pow: 1,745 n-octanol/water 10. STABILITY AND REACTIVITY Storage stability Stable under recommended storage conditions. Conditions to avoid Heat, flames and sparks. Materials to avoid Oxidizing agents, Strong bases

# Sodium carbonate (<=0,001 %)

Acute toxicity Irritation and corresion

Chronic exposure

**Potential Health Effects** 

Skin

Eyes

IARC:

12. ECOLOGICAL INFORMATION Elimination information (persistence and degradability)

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

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

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

Further information on ecology

**Ecotoxicity effects** 

**Product** 

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

## **IMDG** UN-Number: 1993 Class: 3

**IATA** 

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

Packing group: II

Packing group: II

Packing group: II

F Highly flammable Χi Irritant

R43

R11 Highly flammable. R36 Irritating to eyes.

Further information

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.

EMS-No: F-E, S-E

UN-Number: 1993 Class: 3

Labelling according to EC Directives

Hazard symbols

Highly flammable. May cause sensitization by skin contact.

16. OTHER INFORMATION

R43 May cause sensitization by skin contact.

Text of R-phrases mentioned in Section 3

apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray;

Methods for 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 13).

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

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

Respiratory protection

Hand protection 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 work Hygiene measures

9. PHYSICAL AND CHEMICAL PROPERTIES

## рΗ Melting point

Ignition temperature

## Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas Contains the following stabiliser(s):

11. TOXICOLOGICAL INFORMATION

Sensitisation

Ingestion **Target Organs** 

Inhalation

13. DISPOSAL CONSIDERATIONS

probable, possible or confirmed human carcinogen by IARC.

May cause eye irritation.

Eyes,

May be harmful if swallowed.

14. TRANSPORT INFORMATION ADR/RID UN-Number: 1993 Class: 3

Proper shipping name: FLAMMABLE LIQUID, N.O.S. Marine pollutant: No

R-phrase(s) R11

563-52-0 3-Chlorobut-1-ene

S-phrase(s) S36/37 Wear suitable protective clothing and gloves.

Hazardous components which must be listed on the label:

www.lookchem.com

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