

MATERIAL SAFETY DATA SHEET
3-CHLOROPROPYL ISOCYANATE 96%

Section 1 - Chemical Product and Company Identification

MSDS Name: 3-CHLOROPROPYL ISOCYANATE 96%
Catalog Numbers: 9.127
Synonyms:
Company Identification: Tau-Chem, Ltd.
 Nobelova 34, P.O. Box 29
 836 05 Bratislava, Slovak Republic
 Phone: +421 2 44 452 252 Fax: +421 2 44 457 645

Relevant identified uses of substance or mixture and uses advised against
 Identified uses Laboratory chemicals, Manufacture of substances

POISON CENTER: National Toxicological Information Centre
 Limbová 5, 833 05 Bratislava,

Emergency Numbers Slovakia: Phone: +421 2 54 774 166 Fax: +421 2 54 774 605

Section 2 - Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Toxicity, Inhalation (Category 4)
 Acute Toxicity, Dermal (Category 4)
 Acute Toxicity, Oral (Category 4)
 Eye irritation (Category 2)
 Specific target organ toxicity – single exposure (Category 3)

Classification according to European Directive 67/548/EEC as amended.

Harmful by inhalation, contact with skin and if swallowed.
 Irritating to eyes, respiratory system and skin.

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Label elements

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H312

Harmful in contact with skin.

H319

Causes serious eye irritation.

H332

Harmful if inhaled.

H335

May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust.
P280 Wear protective gloves/protective clothing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.

Hazard symbol(s)

According to European Directive 67/548/EEC as amended



Xn Harmful.
R-phrase(s)
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36/37 Irritating to eyes and respiratory system.
S-phrase(s)
S23 Do not breathe vapour.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S28 After contact with skin, wash immediately with plenty of water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
Other hazards Lachrymator.

Section 3 - Composition, Information on Ingredients

| CAS# | Chemical Name: | % | EINECS# |
|------------|---------------------------|----|----------|
| 13010-19-0 | 3-CHLOROPROPYL ISOCYANATE | 96 | unlisted |

Classification Acute Tox. 4; Eye Irrit,2; STOT SE 3
H302,H312; H315, H319, H332, H335
Xn, R20/21/22 - R36/37

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

Section 4 – First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled: 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 eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

Section 5 – Fire Fighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters: Wear self contained apparatus breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measures

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

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose as hazardous waste. Place into a suitable disposal container. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation vapour or mist. Avoid dust formation. Ensure adequate ventilation. Keep away from sources of ignition. – No smoking. Take measures to prevent the built 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. Moisture sensitive.

Section 8 – Exposure Controls, Personal Protection

Personal protective equipment:

Respiratory protection: 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 standards such as NIOSH (US) or CEN (EU).

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.

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

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

Section 9 – Physical and Chemical Properties

Appearance

Form: Liquid
Colour: colourless

Safety data:

pH Not available
Melting Point: Not available
Boiling Point: 152 - 154 °C -lit.
Flash Point: 62°C closed cup
Ignition temperature: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Solubility in water: Not available
Density: 1.165 g/cm³ at 25°C
Molecular Formula: C₄ H₆ClNO
Molecular Weight: 196.25 g/mol

Section 10 – Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.
Conditions to Avoid: No data available
Materials to avoid: Strong oxidizing agents, Strong acids, strong bases.
Hazardous Decomposition Products: Hazardous decomposition products under fire conditions.
– Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas.

Section 11 – Toxicological Information

Acute toxicity No data available
Skin corrosion/irritation No data available
Serious eye damage/eye irritation No data available
Respiratory or skin sensitization No data available
Germ cell mutagenicity No data available

Carcinogenicity:

IARC: No component of this product presents 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: Inhalation – May cause respiratory irritation.

| | |
|---|--|
| Specific target organ toxicity – repeated exposure | No data available |
| Aspiration hazard | No data available |
| Potential health effect: | |
| Inhalation | Harmful if inhaled. Causes respiratory tract irritation. |
| Ingestion | Harmful if swallowed. |
| Skin | Harmful if absorbed through skin. May cause skin irritation. |
| Eyes | Causes eye irritation |

Signs and Symptoms of Exposure

Burning, sensation, Cough, shortness of breath, Headache, Nausea, vomiting. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: Data not available.

Section 12 – Ecological Information

| | |
|--------------------------------------|-------------------|
| Toxicity: | No data available |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| PBT and vPvB assessment | No data available |
| Other adverse effects | No data available |

Section 13 – Disposal Considerations

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

Section 14 – Transport Information

| | IATA | IMDG | RID/ADR |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Shipping Name: | ISOCYANATE, TOXIC, N.O.S. | ISOCYANATE, TOXIC, N.O.S. | ISOCYANATE, TOXIC, N.O.S. |
| Hazard Class: | 6.1 | 6.1 | 6.1 |
| UN Number: | 2206 | 2206 | 2206 |
| Packing Group: | III | III | III |
| | | EMS No. F-A; S-A | |
| | | Marine pollutant: No | |

Section 15 – Regulatory Information

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

Section 16 – Other Information

Text of H-code(s) and R-phrase(s) mentioned in Section 3

| | |
|-------------|---|
| Acute Tox. | Acute toxicity. |
| Eye Irrit. | Eye irritation. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H355 | May cause respiratory irritation. |
| Skin Irrit. | Skin irritation. |
| Xn | Harmful. |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R36/37 | Irritating to eyes and respiratory system. |

MSDS Creation Date: 23/6/2010

Revision #0 Date: Original

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

Disclaimer:

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.