

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

ProductName : ( S )- ( - ) - N -(Trifluoroacetyl)pyrrolidine-2-carbonyl chloride solution

2. HAZARDS IDENTIFICATION

**Risk advice to man and the environment**  
Limited evidence of a carcinogenic effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : ( S )- ( - ) - N -(Trifluoroacetyl)proyl chloridesolution  
TPC

Formula : C7H7ClF3NO2

CAS-No.	EC-No.		Classification	Concentration
<b>Methylene chloride</b> 75-09-2	200-838-9	-	Xn, Carc. Cat. 3, R40	98,3 %
<b>(S)-(-)-N-(Trifluoroacetyl)proyl chloride</b> 36724-68-2	-	-	T, N, R25 - R50	1,7 %

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 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 of 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.

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 breathing apparatus for fire fighting if necessary.

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 for cleaning up**  
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

**Handling**  
Avoid inhalation of vapour or mist.  
Normal measures for preventive fire protection.

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

Recommended storage temperature: 2 - 8 °C

Moisture sensitive.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**  
Form liquid

**Safety data**  
pH no data available  
Melting point no data available  
Boiling point no data available  
Flash point no data available  
Ignition temperature no data available  
Lower explosion limit no data available  
Upper explosion limit no data available  
Density 1,000 g/cm3  
Water solubility no data available

10. STABILITY AND REACTIVITY

**Storage stability**  
Stable under recommended storage conditions.

**Materials to avoid**  
Bases, Alkali metals, Strong acids and strong bases, Strong oxidizing agents, Amines, Vinyl compounds, Aluminum, Magnesium

**Hazardous decomposition products**  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

**Acute toxicity**  
no data available

**Irritation and corrosion**  
no data available

**Sensitisation**  
no data available

**Chronic exposure**

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Methylene chloride)

**Signs and Symptoms of Exposure**

Dichloromethane is metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood.

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** May be harmful if swallowed.  
**Target Organs** Liver, pancreas, Blood, Central nervous system, Heart, Kidney,

12. ECOLOGICAL INFORMATION

**Elimination information (persistence and degradability)**  
no data available

**Ecotoxicity effects**  
no data available

**Further information on ecology**  
no data available

13. DISPOSAL CONSIDERATIONS

**Product**  
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**  
Dispose of as unused product.

14. TRANSPORT INFORMATION

**ADR/RID**  
UN-Number: 1593 Class: 6.1 Packing group: III  
Proper shipping name: DICHLOROMETHANE, SOLUTION

**IMDG**  
UN-Number: 1593 Class: 6.1 Packing group: III EMS-No: F-A, S-A  
Proper shipping name: DICHLOROMETHANE, SOLUTION  
Marine pollutant: No

**IATA**  
UN-Number: 1593 Class: 6.1 Packing group: III  
Proper shipping name: Dichloromethane, solution

15. REGULATORY INFORMATION

**Labelling according to EC Directives**

Hazard symbols  
Xn Harmful  
R-phrase(s)  
R40 Limited evidence of a carcinogenic effect.  
S-phrase(s)  
S36/37 Wear suitable protective clothing and gloves.  
Hazardous components which must be listed on the label:  
75-09-2 Methylene chloride

16. OTHER INFORMATION

**Text of R-phrases mentioned in Section 3**

R25 Toxic if swallowed.  
R40 Limited evidence of a carcinogenic effect.  
R50 Very toxic to aquatic organisms.

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



www.lookchem.com

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.