



Material Safety Data Sheet

ISO NONANOYL CHLORIDE

Section 1 – Product and Company Information

Substance : 3, 5, 5-Trimethylhexanoyl Chloride
Trade Name : Iso Nonanoyl Chloride
Chemical Family : Acid Chloride
Company : Shiva Pharmachem Pvt. Ltd.
Plot No. 588,
Village Luna – 391440
Taluka: Padra,
District: Vadodara, Gujarat
India
Phone No. : +91 2662 221021 / 224360
Fax No. : +91 2662 223314

Section 2 – Composition / Information on ingredients

Product Name	CAS No.	EC No.	Mol. Formula	Mol. Weight
ISO Nonanoyl Chloride	36727-29-4	253-168-4	C ₉ H ₁₇ ClO	176.69 g/mol

Section 3 – Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Reacts violently with water.
Causes burns.
Harmful by inhalation.

Section 4 – First Aid Measures

INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting



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Section 5 – Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable : Carbon dioxide, dry chemical powder, or appropriate foam.

Unsuitable : Do not use water.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 – Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not allow to get in eyes, on skin and on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Store in a cool dry place. Incompatible Materials: Do not allow contact with water

Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). 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.



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Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

Special Protective Measures: Face shield (8-inch minimum).

Section 9 - Physical and Chemical Properties

Appearance Physical State	: Liquid
Property	: Value at temperature or Pressure
PH	: N/A
BP/BP Range	: 188.0 - 190.0 °C at 760 mmHg
MP/MP Range	: N/A
Flash Point	: 140 °C Method: closed cup
Flammability	: N/A
Autoignition Temp	: N/A
Oxidizing Properties	: N/A
Explosive Properties	: N/A
Explosion Limits	: N/A
Vapor Pressure	: N/A
SG/Density	: 0.93 g/cm ³ at 20°C
Partition Coefficient	: N/A
Viscosity	: N/A
Vapor Density	: N/A
Saturated Vapor Conc.	: N/A
Evaporation Rate	: N/A
Bulk Density	: N/A
Decomposition Temp.	: N/A
Solvent Content	: N/A
Water Content	: N/A
Surface Tension	: N/A
Conductivity	: N/A
Miscellaneous Data	: N/A
Solubility	: N/A

Section 10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents, Water, Alcohols, Alkali metals, Amines.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen chloride gas, Phosgene gas.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur



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Section 11 - Toxicological Information

ACUTE TOXICITY

LC50

Inhalation

Rat

240 ppm

4H

Remarks : Behavioral Somnolence (general depressed activity).

Gastrointestinal : Changes in structure or function of salivary glands.

Skin and Appendages

Other: Hair

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

ROUTE OF EXPOSURE

Skin Contact

Causes burns.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

Causes burns.

Inhalation

Harmful if inhaled. May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion

May be harmful if swallowed.

Section 12 - Ecological Information

Not Available

Section 13 - Disposal Considerations

SUBSTANCE DISPOSAL

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



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Section 14 - Transport Information

RID/ADR

UN No. : 2922
Hazard Class : 8
PG : I
Subrisk : 6.1
Proper Shipping Name : Corrosive liquid, toxic, n.o.s. (Contains Iso Nonanoyl Chloride)

IMDG

UN No. : 2922
Class : 8
PG : II
Subrisk : 6.1
Proper Shipping Name : Corrosive liquid, toxic, n.o.s. (Contains Iso Nonanoyl Chloride)
Marine Pollutant : No
Severe Marine Pollutant : No
Technical Name : Required

IATA

UN No. : 2922
Class : 8
PG : II
Subrisk : 6.1
Proper Shipping Name : Corrosive liquid, toxic, n.o.s. (Contains Iso Nonanoyl Chloride)
Inhalation Packing Group I : No
Technical Name : Required

Section 15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: C

Corrosive.

R-PHRASES: 14-34-20

Reacts violently with water. Causes burns. Harmful by inhalation.

S-PHRASES: 26-27-36/37/39-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 1

ID-Number: 1880

KBwS-Decision



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Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Shiva Pharmachem Pvt. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incident, consequential or exemplary damages, howsoever arising, even if Shiva Pharmachem Pvt. Ltd has been advised of the possibility of such damages.