

Material Safety Data Sheet

NEODECANOYL CHLORIDE

Section 1 – Product and Company Information

Substance	: 7, 7- Dimethyl Octanoyl Chloride
Trade Name	: Neodecanoyl Chloride
Chemical Family	: Acid Chlorides
Company	: Shiva Pharmachem 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 – Hazards Identification

EMERGENCY OVERVIEW

Danger: Combustible liquid. Highly toxic by inhalation, Corrosive to skin, Causes eye burn. May be harmful if swallowed.

GHS LABEL ELEMENT: HAZARD PICTOGRAM



SINGLE WORD

HAZARD STATEMENTS

: **Danger**
: Combustible liquid
: Fatal if inhaled
: Harmful if swallowed
: Causes severe skin and eye damage

Potential Health Effects

Acute Overexposure Effects

Eye	: Contact with eye causes irritation.
Skin	: Contact with skin may causes irritation.
Ingestion	: Causes gastrointestinal tract burns.
Inhalation	: highly toxic by inhalation.

STORAGE : Stored in well ventilated place. Keep cool.

OTHER HAZARDS : Hydrolyses exothermically in water, liberates hydrogen chloride vapours.

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Section 3 – Composition / Information on Ingredients

Product Name	CAS No.	EC No.	Mol. Formula	Mol. Weight
Neo Decanoyl Chloride	40292-82-8	254-875-0	C ₁₀ H ₁₉ ClO	190.7 g/mol

Section 4 – First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If swallowed, dilute with water. DO NOT INDUCE VOMITING. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. Get medical aid immediately.

Notes to Physician: Treat symptomatically and supportively.

Section 5 – Fire Fighting Measures

Flash Point : 92 °C

Auto ignition : 315 °C

Lower explosion limit 5.4% (v)

Upper explosion limit 9.9% (v)

Extinguishing Media: Dry chemical, Carbon Dioxide, Alcohol-Resistant Foam.

Fire Fighting Procedures: Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Unusual Hazards: See below.

Product heats up excessively in contact with water, alkalies, amines or product containing amines. Hydrogen Chloride can be given off in a fire.

FURTHER INFORMATION:

Avoid direct contact with water

NFPA Rating:

Health: 3 Fire: 2 Reactivity: 2

Section 6 – Accidental Release Measures

General:

Spills should be contained, solidified and placed in suitable containers for disposal in a RCRA licensed facility. This material is RCRA hazardous due to its properties.

Personal precautions:

Breathing protection required. Avoid contact with skin, eye and clothing.

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Environmental precautions:

Substance is RCRA hazardous due to its properties. Do not discharge into drain / ground water / surface water.

Cleanup: Spill should be stored in closed container for disposal.

Section 7 - Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Do not breathe dust, vapor, mist, or gas. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool dark & dry place. Store in a tightly closed container. Mark area as corrosive area. Protect against moisture.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Provide local exhaust ventilation to control vapour / mist. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

Exposure Limits

Chemical Name ACGIH NIOSH OSHA - Final PELs

Neodecanoyl Chloride 99%

OSHA Vacated PELs: Neodecanoyl Chloride 99%, No OSHA Vacated PELs is listed for this chemical.

Personal Protective Equipment

Clothing: Wear butyl rubber gloves, coveralls, apron or boots as necessary to prevent contact. Gloves must be inspected regularly and replaced as necessary.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Respiration: Wear self- contained breathing apparatus or full face supplied air respirators.

Ventilation: Use local exhaust to control vapors/mists.

Explosion Proofing : See Section 5 - Fire and Explosion Data.

Other Personal Protection Data: None under normal conditions.

Section 9 - Physical and Chemical Properties

Properties

Physical State	: Liquid
Appearance	: Colorless
Odor	: Pungent
pH	: Acidic
Vapor Density	: > 1 (Air = 1) heavier than air
Evaporation Rate	: Not available.
Boiling Point	: 209.9 at 760 mmHg , 100 °C @ 28 millibars
Freezing/Melting Point	: 11.6 °C (calculated)
Vapour pressure	: 19.5 mmHg at 100 °C
Decomposition Temperature	: Not available.

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Relative Density	: 0.94
Bulk density (g/cm ³)	: 0.93
Viscosity	: 2.42 mPa.s 20 °C
Solubility	: Miscible with non polar aromatic solvent.
Solvent	: Nil
Water	: Reacts with water. Not applicable.
Specific Gravity/Density	: 0.95 g/cm ³ @ 25 oC
Partition coefficient (n - octanol/water)	: 3.35 20 °C

Section 10 - Stability and Reactivity

Stability Data

Stable. Reacts violently with water with the evolution of HCl gas.

Incompatibility

Water, Alkalies, Amines or Products Containing Amines.

Conditions/Hazards to Avoid: See Reactivity - Incompatibility section.

Hazardous Decomposition / Polymerization: Hazardous Decomposition Products: HCl, CO₂.

Polymerization does not occur.

Corrosive Properties: Corrosive.

Section 11 - Toxicological Information

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Toxicology Test Data: Rabbit,

Eye Irritation (unrinsed) – Nonirritating Rabbit,

Primary Skin Irritation - Irritating

Rat,

Oral LD50 - 1760 MG/KG

Moderately Toxic

Rat, 4 hr Inhalation

LC50 - 0.4 MG/L

Very Toxic

Rat, Inhalation Safety Screen –

Death; Prolonged Exposure; 20 Deg C

Ames Salmonella Assay -

Not mutagenic

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Section 12 - Ecological Information

Environmental Toxicity Test Data:
Elimination, (OECD 301D) - < 10 PERCENT

Not readily biodegradable
Zebra Fish, Static 96 hr LC50 >100 - <215 mg/l
Practically Nontoxic

Section 13 - Disposal Considerations

Waste Disposal: Incinerate in a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Container Disposal:

Empty containers with less than 1 inch of residue may be land filled at a licensed facility. Recommend crushing or other means to prevent unauthorized reuse. Other containers must be disposed of in a RCRA licensed facility.

Section 14 - Transport Information

DOT Proper Shipping Name:

SEE BELOW

DOT Technical Name:

SEE BELOW

NEODECANOYL CHLORIDE

DOT Primary Hazard Class:

SEE BELOW

DOT Secondary Hazard Class:

SEE BELOW

DOT Label Required:

SEE BELOW

DOT Placard Required:

SEE BELOW

DOT Poison Constituent:

SEE BELOW

US DOT Canada TDG

Shipping Name:

TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.

Hazard Class : 8, 6.1

UN Number : UN 2927

Packing Group : II

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Section 15 - Regulatory Information

TSCA Inventory Status
Listed on Inventory: YES
RCRA Hazard Waste No.: D002
CERCLA: NO Reportable Qty.: (If YES)

The RCRA hazardous waste number D002 refers to this material's RCRA hazardous waste characteristic of corrosivity. The hazard waste num. D003 refers to its characteristic of reactivity. State Regulatory Information: (By Component) NJ/PA/MA RTK

CAS: 40292-82-8 YES
NAME: Neodecanoyl Chloride
Hazard Ratings:

	Health	Fire	Reactivity	Special
HMIS	3	2	2	NA
NFPA	3	2	2	NA

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

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 Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Shiva Pharmachem Ltd. has been advised of the possibility of such damages.