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## **MATERIAL SAFETY DATA SHEET**

### **N-CHLORO SUCCINIMIDE 98%**

**(For Synthesis)**

**MSDS CAS: 128-09-6**

## **Section 1: Chemical Product and Company Identification**

### **Section 1: Chemical Product**

**Product Name: N-CHLORO SUCCINIMIDE**

**CAS#: 128-09-6**

**Synonym: 1-Chloro-2,5-pyrrolidinedione; Succinochlorimide**

**Chemical Name: N-Chloro succinimide**

**Chemical Formula: C<sub>4</sub>H<sub>4</sub>ClNO<sub>2</sub>**

**Brand : OXFORD**

### **Details Of The Supplier Of The Safety Data Sheet :**

**Company identification: OXFORD LAB FINE CHEM LLP**  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
Mumbai, Maharashtra, INDIA.  
Tel: 91-250-2390989  
Tel/Fax: 91-250-2390032

## **Section 2: Composition and Information on Ingredients**

### **Composition:**

Name	CAS #	% by Weight
{n-}Chloro succinimide	128-09-6	100

**Toxicological Data on Ingredients: n-Chloro succinimide: ORAL (LD50): Acute: 1000 mg/kg [Rat].**

## Section 3: Hazards Identification

### Potential Acute Health Effects:

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated exposure of the eyes to a low level of dust can produce eye irritation.

Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

## Section 4: First Aid Measures

### Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

### Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

### Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

### Inhalation:

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

## Section 4: First Aid Measures (Continued)

### Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband.

**WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

### Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

## Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

### Products of Combustion:

These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...), halogenated compounds.

### Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

### Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

### Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

## Section 5: Fire and Explosion Data (Continued)

### Special Remarks on Explosion Hazards:

Explosive reaction with aliphatic alcohols, benzylamine, and hydrazine hydrate.

## Section 6: Accidental Release Measures

### Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

### Large Spill:

Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

## Section 7: Handling and Storage

### Precautions:

Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

### Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 5°C (41°F).

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

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## Section 8: Exposure Controls/Personal Protection (Continued)

### Personal Protection:

Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not Available.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (crystalline powder.)

<b>Odor</b>	: Chlorine
<b>Taste</b>	: Not available.
<b>Molecular Weight</b>	: 133.53 g/mole.
<b>Color</b>	: White.
<b>pH (1% soln/water)</b>	: Not available.
<b>Boiling Point</b>	: 216.5°C (421.7°F)
<b>Melting Point</b>	: 150°C (302°F)
<b>Critical Temperature</b>	: Not available.
<b>Specific Gravity</b>	: 1.65 (Water = 1)
<b>Vapor Pressure</b>	: Not available.
<b>Vapor Density</b>	: Not available.
<b>Volatility</b>	: Not available.
<b>Odor Threshold</b>	: Not available.
<b>Water/Oil Dist. Coeff.</b>	: Not available.
<b>Ionicity (in Water)</b>	: Not available.
<b>Dispersion Properties</b>	: See solubility in water, acetone.
<b>Solubility</b>	: Soluble in acetone. Partially soluble in cold water. Very slightly soluble in diethyl ether. Slightly soluble in alcohol, acetic acid, and petroleum ether. Sparingly soluble in chloroform, and carbon tetrachloride.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:**

Excess heat, dust generation, incompatible materials, exposure to moist air or water, exposure to light.

**Incompatibility with various substances:** Reactive with oxidizing agents, acids, alkalis.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:** Also incompatible with amines, ammonia, iron, and iron salts.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:**

Acute oral toxicity (LD50): 1000 mg/kg [Rat].

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:**

Very hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:**

May cause cancer (tumorigenic) based on animal data.

## Section 11: Toxicological Information (Continued)

### Special Remarks on other Toxic Effects on Humans:

**Acute Potential Health Effects:** **Skin:** May cause severe irritation with possible burns. **Eyes:** May cause severe irritation and possible burns. **Inhalation:** May cause irritation of the respiratory with burning pain in the nose and throat, coughing, wheezing, shortness of breath, dyspnea, and pulmonary edema, and edema of the larynx. **Ingestion:** May be harmful if swallowed. May cause severe gastrointestinal (digestive) tract irritation with nausea, vomiting, pain and inflammation of the mouth, pharynx, esophagus, and stomach, and possible burns (erosion of the mucous membranes, chiefly of the stomach). May affect behavior (confusion, delirium, food intake), metabolism, and blood.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

### Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

### Toxicity of the Products of Biodegradation:

The products of degradation are as toxic as the product itself.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

### Waste Disposal :

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 14: Transport Information

### Land transport (ADR-RID)

**Proper shipping name:** CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

**UN N°:** 3261

**H.I. nr:** 80

**ADR - Class:** 8

**Labelling - Transport:** 8 : Corrosive substance.

**ADR - Group:** II

### Sea transport (IMDG) [English only]

**Proper shipping name:** CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

**UN N°:** 3261

**IMO-IMDG - Class or division:** 8 : Corrosive substance.

**IMO-IMDG - Packing group:** II

### Air transport (ICAO-IATA) [English only]

**Proper shipping name:** CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

**UN N°:** 3261

**IATA - Class or division:** 8 : Corrosive substance.

**IATA - Packing group:** II

## Section 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: n-Chloro succinimide.

### Other Regulations:

**OSHA:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). **EINECS:** This product is on the European Inventory of Existing Commercial Chemical Substances.

### Other Classifications:

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):** R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes. S2- Keep out of the reach of children. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39- Wear eye/face protection. S46- If swallowed, seek medical advice immediately and show this container or label.



## **Section 15: Other Regulatory Information (Continued)**

**HMIS (U.S.A.):**

**Health Hazard: 3**

**Fire Hazard: 1**

**Reactivity: 0**

**Personal Protection: j**

**National Fire Protection Association (U.S.A.):**

**Health: 3**

**Flammability: 1**

**Reactivity: 0**

**Specific hazard:**

**Protective Equipment:**

Gloves. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

## **Section 16 - Additional Information**

**References:** Not available.

**Other Special Considerations:** Not available.

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