Section 1 - Product and Company Information

Product Name: 2-iOCTOHYDRO-3-NITROPHENYL)-5-CHLOROTETRAZOLUM CHLORIDE
Product Number: 18377
Brand: Sigma Chemical
Company: Sigma-Aldrich
Street Address: 3505 Spruce Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 US
Technical Phone: 314 771 5785
Fax: 314 771 5785
Emergency Phone: 414 273 3860 Ext. 5996

Section 2 - Composition/Information on Ingredient

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS #</th>
<th>SARA 313</th>
<th>EC no</th>
<th>Annex / Index Number</th>
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<tbody>
<tr>
<td>2-iOCTOHYDRO-3-NITROPHENYL)-5-CHLOROTETRAZOLUM CHLORIDE</td>
<td>None</td>
<td>No</td>
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<tr>
<td>METHANOL</td>
<td>67-56-1</td>
<td>5,000 %</td>
<td>SARA 313</td>
<td>Yes</td>
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<tr>
<td>Formula</td>
<td>C19H13CIN5O2</td>
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</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview
Health Hazard
Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.
Target organ(s): Eyes. Liver.
For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

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

Dermal Exposure
In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A
Extinguishing Media
Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Preventive Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s)
Emits toxic fumes under fire conditions.

Exposure Hazard(s)
Material
Toxic. Irritant.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Methods for Cleaning
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
User Exposure
Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage
Suitable
Keep tightly closed. Store in a cool dry place. Store at 2-8°C
Special Requirements
Hygroscopic.

Section 8 - Exposure Controls / PPE

Engineering Controls
Mechanical exhaust required. Safety shower and eye bath.
Personal Protective Equipment
Other
Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.
General Hygiene Measures
Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Appearance

Sigma Chemical - 18377
Sigma-Aldrich Corporation
www.sigma-aldrich.com
Molecular Weight: 505.7 AMU

Section 10 - Stability and Reactivity

Stability
Materials to Avoid
Strong oxidizing agents.

Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen chloride gas, Hydrogen iodide.

Section 11 - Toxicological Information

Route of Exposure
Inhalation
Material is irritating to mucous membranes and upper respiratory tract.

Target Organ(s) or System(s)
Damage to the eyes. Damage to the liver. Damage to the heart. Damage to the kidneys. Liver. Eyes. Kidneys.

Signs and Symptoms of Exposure
Exposure can cause: Damage to the eyes. Damage to the liver. Damage to the heart. Damage to the kidneys. Gastrointestinal disturbances. May cause convulsions.

Conditions Aggravated by Exposure
The toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
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.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification
Indication of Danger
Harmful.

Risk Statements
R: 20/21/22 69/2021/22
Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin, and if swallowed.

Safety Statements
S: 28 36
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Classification and Label Text
Indication of Danger
Harmful.

Risk Statements
Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

Safety Statements
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

United States Regulatory Information
SARA Listed: No

Notes: This product is subject to SARA section 313 reporting requirements. This product is subject to SARA section 313 reporting requirements.

Canada Regulatory Information
WHMIS Classification
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No
NDSL: No

Section 16 - Other Information

Disclaimer
For R&D use only. Not for drug, household or other uses.
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. Sigma-Aldrich Inc., 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. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.