

## Material Safety Data Sheet

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Version 1.1  
According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

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#### 1 - Product and Company Information

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Product Name 3,5-DICHLORO-2-HYDROXYBENZENESULFONYL  
CHLORIDE, 99%  
Product Number 146110  
Company Sigma-Aldrich Pty. Ltd.  
12 Anella Avenue  
Castle Hill NSW 2154  
Australia  
Technical Phone # +61 2 9841 0555 (1800 800 097)  
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Emergency Phone # +44 8701906777 (1800 448 465)

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#### 2 - Composition/Information on Ingredients

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Product Name	CAS #	EC no	Annex I Index Number
3,5-DICHLORO-2-HYDROXYBENZENESULFO NYL CHLORIDE	23378-88-3	245-619-9	None

Formula C6H3Cl3O3S  
Molecular Weight 261.51 AMU

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#### 3 - Hazards Identification

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SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
Causes burns.

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#### 4 - First Aid Measures

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##### AFTER INHALATION

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

##### AFTER EYE CONTACT

Assure adequate flushing of the eyes by separating the eyelids  
with fingers.

##### AFTER INGESTION

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

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#### 5 - Fire Fighting Measures

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##### CONDITIONS OF FLAMMABILITY

Water hydrolyzes material liberating acidic gas which in contact  
with metal surfaces can generate flammable and/or explosive  
hydrogen gas.

## 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.

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## 6 - Accidental Release Measures

### 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. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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## 7 - Handling and Storage

### HANDLING

**Directions for Safe Handling:** Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

### STORAGE

**Conditions of Storage:** Keep tightly closed. Store in a cool dry place.

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### SPECIAL REQUIREMENTS: Moisture sensitive.

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## 8 - Exposure Controls / Personal Protection

### ENGINEERING CONTROLS

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

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

### PERSONAL PROTECTIVE EQUIPMENT

**Special Protective Measures:** Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

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## 9 - Physical and Chemical Properties

Appearance	Color: Faintly beige Form: Powder
Property	Value
pH	N/A
BP/BP Range	N/A
MP/MP Range	80 °C
Flash Point	N/A
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	N/A
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

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## 10 - Stability and Reactivity

### STABILITY

Conditions to Avoid: Moisture.

Materials to Avoid: Strong oxidizing agents, Strong bases.

### HAZARDOUS DECOMPOSITION PRODUCTS

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

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## 11 - Toxicological Information

### SIGNS AND SYMPTOMS OF EXPOSURE

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

### ROUTE OF EXPOSURE

Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin.

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## 12 - Ecological Information

No data available.

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## 13 - Disposal Considerations

### SUBSTANCE DISPOSAL

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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## 14 - Transport Information

### RID/ADR

UN#: 3261

Class: 8

PG: II  
Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.

#### IMDG

UN#: 3261  
Class: 8  
PG: II  
Proper Shipping Name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.  
Marine Pollutant: No  
Severe Marine Pollutant: No  
Technical Name: Required

#### IATA

UN#: 3261  
Class: 8  
PG: II  
Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.  
Inhalation Packing Group I: No  
Technical Name: Required

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### 15 - Regulatory Information

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#### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: C

Corrosive.

R-PHRASES: 34

Causes burns.

S-PHRASES: 26 36/37/39 45

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

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### 16 - Other Information

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#### 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 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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