#### SIGMA-ALDRICH

## Material Safety Data Sheet

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

# 1 - Product and Company Information

Product Name
Product Number

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#### 2 - Composition/Information on Ingredients

Product Name

CAS # EC no Annex I Index Number

BENZYLTRIPHENYLPHOSPHONIUM 1100-88-5 214-154-3 None

CHLORIDE

Formula C25H22P.Cl Molecular Weight 388.88 AMU

### 3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Toxic if swallowed.

#### 4 - First Aid Measures

#### AFTER INHALATION

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

#### AFTER 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.

## AFTER 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.

## AFTER INGESTION

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

# 5 - Fire Fighting Measures

### EXTINGUISHING MEDIA

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

### 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.

## 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

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.

# 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.

# SPECIAL REQUIREMENTS: Hygroscopic.

## 8 - Exposure Controls / Personal Protection

## ENGINEERING CONTROLS

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

#### GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash thoroughly after handling.

## PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator. Hand Protection: Compatible chemical-resistant gloves. Eye Protection: Chemical safety goggles.

# 9 - Physical and Chemical Properties

Appearance Physical State: Solid

Color: White Form: Powder

Property Value At Temperature or Pressure

pH N/A BP/BP Range N/A

MP/MP Range > 300 °C Flash Point 300 °C Method: closed cup Flammability N/AAutoignition Temp N/AOxidizing Properties N/A Explosive Properties N/A Explosion Limits N/A Vapor Pressure N/ASG/Density N/APartition Coefficient N/A Viscosity N/AVapor Density N/AN/ASaturated Vapor Conc. Evaporation Rate N/ABulk Density N/ADecomposition Temp. N/ASolvent Content N/AWater Content N/ASurface Tension N/AConductivity N/AMiscellaneous Data N/ASolubility N/A

# 10 - Stability and Reactivity

#### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

## HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen chloride gas, Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

# 11 - Toxicological Information

RTECS NUMBER: TA2416500

#### ACUTE TOXICITY

LD50 Oral

Rat

43 mg/kg

## SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## ROUTE OF EXPOSURE

Skin Contact: May be toxic in contact with skin. Causes skin irritation.

Eye Contact: Causes eye irritation.

Inhalation: May be toxic by inhalation. Material is irritating

to mucous membranes and upper respiratory tract.

Ingestion: Toxic if swallowed.

## 12 - Ecological Information

## 13 - Disposal Considerations

#### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of 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.

## 14 - Transport Information

```
RID/ADR
   UN#: 2811
   Class: 6.1
   PG: II
   Proper Shipping Name: Toxic solid, organic, n.o.s.
IMDG
   UN#: 2811
   Class: 6.1
   PG: II
   Proper Shipping Name: Toxic solid, organic, n.o.s.
   Marine Pollutant: No
   Severe Marine Pollutant: No
   Technical Name: Required
IATA
   UN#: 2811
   Class: 6.1
   PG: II
   Proper Shipping Name: Toxic solid, organic, n.o.s.
   Inhalation Packing Group I: No
   Technical Name: Required
```

# 15 - Regulatory Information

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CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
INDICATION OF DANGER: T
Toxic.
R-PHRASES: 25
Toxic if swallowed.
S-PHRASES: 45 26 36/37/39
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, gloves, and eye/face protection.
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### 16 - Other Information

## 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.

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