



Seek immediate medical advice.

- **After eye contact**  
Rinse opened eye for several minutes under running water.  
Then consult a doctor.
- **After swallowing** Seek immediate medical advice.
- **Information for doctor**
- **The following symptoms may occur:**  
Gastric or intestinal disorders.  
Coughing  
Breathing difficulty

## **5 Fire fighting measures**

- **Suitable extinguishing agents**  
Product is not flammable. Use fire fighting measures that suit the surrounding fire.
- **For safety reasons unsuitable extinguishing agents**  
Halogenated extinguisher
- **Protective equipment:**  
Wear self-contained respirator.  
Wear fully protective impervious suit.

## **6 Accidental release measures**

- **Person-related safety precautions:**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **Measures for environmental protection:**  
Do not allow material to be released to the environment without proper governmental permits.
- **Measures for cleaning/collecting:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Additional information:**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## **7 Handling and storage**

- **Handling**
- **Information for safe handling:**  
Keep container tightly sealed.  
Store in cool, dry place in tightly closed containers.  
Ensure good ventilation at the workplace.  
Prevent formation of dust.
- **Information about protection against explosions and fires:**  
The product is not flammable
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
No special requirements.
- **Information about storage in one common storage facility:**  
Do not store together with acids.  
Do not store together with alkalies (caustic solutions).  
Store away from oxidizing agents.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.

## **8 Exposure controls and personal protection**

- **Additional information about design of technical systems:**  
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

**Additional information:** No data

- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Remove all soiled and contaminated clothing immediately.  
Wash hands before breaks and at the end of work.

- **Breathing equipment:**  
Use suitable respirator when high concentrations are present.
- **Protection of hands:** Impervious gloves
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

**9 Physical and chemical properties:**

- **General Information**

- **Form:** Powder
- **Color:** Amber
- **Odor:** Odorless

- |  |                    |             |               |
|--|--------------------|-------------|---------------|
|  | <u>Value/Range</u> | <u>Unit</u> | <u>Method</u> |
|--|--------------------|-------------|---------------|

- **Change in condition**

- **Melting point/Melting range:** Not determined
- **Boiling point/Boiling range:** Not determined
- **Sublimation temperature / start:** Not determined
- **Flash point:** Not applicable
- **Flammability (solid, gaseous)** Product is not flammable.
- **Ignition temperature:** Not determined
- **Decomposition temperature:** Not determined
- **Danger of explosion:**  
Product does not present an explosion hazard.
- **Explosion limits:**
- **Lower:** Not determined
- **Upper:** Not determined

- **Vapor pressure:** Not determined
- **Density:** Not determined
- **Solubility in / Miscibility with**
- **Water:**

#### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
Decomposition will not occur if used and stored according to specifications.
- **Materials to be avoided:**  
Acids  
Bases  
Oxidizing agents  
Interhalogens  
Halocarbons
- **Dangerous reactions**
- **Dangerous products of decomposition:**

#### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**  
Tumorigenic effects have been observed on tests with laboratory animals.
- **Subacute to chronic toxicity:**
- **Subacute to chronic toxicity:**  
**Additional toxicological information:**

## **12 Ecological information:**

- **General notes:**

Do not allow material to be released to the environment without proper governmental permits.

## **13 Disposal considerations**

- **Product:**

- **Recommendation**

Consult state, local or national regulations to ensure proper disposal.

- **Uncleaned packagings:**

- **Recommendation:**

Disposal must be made according to official regulations.

## **14 Transport information**

Not a hazardous material for transportation.

- **DOT regulations:**

- **Hazard class:** None

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** None

- **Maritime transport IMDG:**

- **IMDG Class:** None

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** None

- **Transport/Additional information:**

Not dangerous according to the above specifications.

## **15 Regulations**

- **Product related hazard informations:**

- **Hazard symbols:** Xi Irritant

- **Risk phrases:** 36/37 Irritating to respiratory system.
- **Safety phrases:**
  - 22 Do not breathe dust.
  - 36 Wear suitable protective clothing.
  - 38 In case of insufficient ventilation, wear suitable respiratory equipment.
- **National regulations**

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.
- **Information about limitation of use:**

For use only by technically qualified individuals.

**16 Other information:**

- Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.