



# Changsha Santech Materials Co.,Ltd.

## 长沙盛特新材料有限公司

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## Material Safety Data Sheet

### Gallium Oxide MSDS

#### Section 1 - Chemical Product and Company Identification

**Product Name:** Gallium Oxide

**Formula:** Ga<sub>2</sub>O<sub>3</sub>

**CAS #:** 12024-21-4

**Molecular Weight :** 187,44 g/mol

**Form:** white powder

**Data No.:** MSDS-Ga<sub>2</sub>O<sub>3</sub>-160123

#### **Contact Information:**

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#### Section 2 - Composition, Information on Ingredients

##### **Composition:**

Name	CAS No.	EC-No.	%by weight
<b>Gallium Oxide</b>	12024-21-4	234-691-7	100

#### Section 3 - Hazards Identification

##### **Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

**Label elements:** The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other hazards:** none

#### Section 4 - First Aid Measures

##### **Description of first aid measures**

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

## **Section 5 - Fire Fighting Measures** .....

### **Extinguishing media**

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special hazards arising from the substance or mixture:** gallium oxides

**Advice for firefighters:** Wear self contained breathing apparatus for fire fighting if necessary.

**Further information:** The product itself does not burn.

## **Section 6 - Accidental Release Measures** .....

### **Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapors, mist or gas.

**Environmental precautions:** Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

## **Section 7 - Handling and Storage** .....

**Precautions for safe handling:** Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**Specific end uses:** no data available

## **Section 8 - Exposure Controls, Personal Protection** .....

### **Control parameters**

#### **Components with workplace control parameters**

#### **Exposure controls**

##### **Appropriate engineering controls**

General industrial hygiene practice.

##### **Personal protective equipment**

**Eye/face protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific

workplace.

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## **Section 9 - Physical and Chemical Properties** -----

### **Information on basic physical and chemical properties**

Appearance Form: powder

Colour: white

Odour: no data available

Odour Threshold: no data available

pH: no data available

Melting point/freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: not applicable

Evaporation rate: no data available

Flammability (solid, gas): no data available

Relative density: 5,88 g/mL at 25 °C

Water solubility: no data available

Autoignition temperature: no data available

Decomposition temperature: no data available

Viscosity: no data available

Explosive properties: no data available

Oxidizing properties: no data available

## **Section 10 - Stability and Reactivity** -----

**Reactivity:** no data available

**Chemical stability:** no data available

**Possibility of hazardous reactions:** no data available

**Conditions to avoid:** no data available

**Incompatible materials:** Strong oxidizing agents

**Hazardous decomposition products:** Other decomposition products - no data available

## **Section 11 - Toxicological Information** -----

### **Information on toxicological effects**

#### **Acute toxicity**

LD50 Oral - mouse - 10.000 mg/kg

Remarks: Peripheral Nerve and Sensation:Flaccid paralysis without anesthesia (usually neuromuscular blockage). Behavioral:Somnolence (general depressed activity). Behavioral:Food intake (animal).

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** no data available



### **Section 15 - Regulatory Information** -----

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
no data available

**Chemical Safety Assessment:** no data available

### **Section 16 - Additional Information** -----

**References:** based on the present state of our knowledge and is to describe the product with reference to the safety measures that must be taken

**Other Special Considerations:** Not available.

**Created:** 10/10/2011

**Last Updated:** 23/01/2016

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