

**1. Identification of the substance/preparation and of the company/undertaking***Identification of the product*

Chromium(III) nitrate nonahydrate

*Manufacturer/supplier identification*

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

Address: No.295 Daxue Road,Shantou

PostCode:515000

E-mail: [export@jinhuada.com](mailto:export@jinhuada.com)

Emergency telephone No.: +86-754-82515813.

Fax No.: +86-754-88221999

**2. Hazards identification****Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Oxidizing solids (Category 3)

Acute toxicity, Oral (Category 5)

Skin irritation (Category 2)

Eye irritation (Category 2)

**Label elements**

Pictogram



Signal word Warning

## Hazard statement(s)

H272 May intensify fire; oxidizer.

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

## Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

## Supplemental Hazard Statements

none

**3. Composition/information on ingredients***Synonyms*

Chromium(III) nitrate nonahydrate

CAS-No.: 7789-02-8

*M*: 400.14g/mol

Molecular formula:  $\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$

#### 4. First aid measures

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. Fire-fighting measures

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. Accidental release measures

**Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Sweep up and shovel. Coace T[ TE2 )-249( )i1 159.5 664.3 d9 411po[ )al94 Tmccn. ingath DCcB-10(A)gu{a(f)3(e ar)s (.82

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).

Control of environmental exposure

Do not let product enter drains.

**9. Physical and chemical properties**

**Form:** crystals

**Colour:** white powder

**Odour:** not available

**pH value:** 2.0~3.0

**Melting point:** ~60 °C

**Boiling point:** not available

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**

**lower:** not available

**upper:** not available

**Density :** not available

**Bulk density:** not available

**Solubility in**

**water** (2P) (US) Solubility: 77.664 g/L (20°C) (Solubility) (E920) (11) (er) (5) (2P) (US) (BDC) (D) (34) (Lang) (en-US) (BDC) (B)

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**12. Ecological information****Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

**13. Disposal considerations****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. Transport information****ADR/RID**

UN-Number: 2720 Class: 5.1 Packing group:III

Proper shipping name: CHROMIUM NITRATE

**IMDG**

UN-Number: 2720 Class: 5.1 Packing group:III

Proper shipping name: CHROMIUM NITRATE

Marine pollutant: no

**IATA**



## Material Safety Data Sheet

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UN-Number: 2720    Class: 5.1    Packing group:III  
Proper shipping name: Chromium nitrate

### 15. Regulatory information

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

### 16. Other information

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.