



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : C 12229  
Product Name : Chromic acid

#### Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India  
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : Chromium trioxide  
CAS-No : 1333-82-0  
Ec-Index No. : 007-001-01-2  
EC-No. : 215-607-8  
Molecular formula : CrO<sub>3</sub>  
Molar mass : 99.99

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### 3. HAZARDS IDENTIFICATION

May cause cancer by inhalation. Contact with combustible materials may cause fire. Also toxic if swallowed. Causes severe burns. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. Restricted to professional users. Attention- Avoid exposure- obtain special instructions before use.

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### 4. FIRST AID MEASURES

After inhalation : fresh air. Summon doctor.

After skin contact: wash off with plenty of water .Remove contaminated clothing. Dab with polyethylene glycol 400.

After eye contact: rinse out with plenty of water if pain persists consult an eye specialist

After swallowing: make victim drink plenty of water . avoid vomiting. Immediately summon doctor. Do not attempt to neutralize.

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### 5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials stored in immediate neighbourhood.

Special risks : Fire promoting. Keep away from combustible materials.

Special protective equipment for fire fighting: Do not stay in dangerous zone without self contained breathing apparatus.

Other information: Prevent fire fighting water from entering surface water or ground water.

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### 6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning / absorption :

Take up with dry. Forward for disposal. Clean up affected area.

Person – related precautionary measures :

Do not inhale dusts. Avoid substance contact. Avoid generation of dust.

Environmental protection measures: Do not allow to enter sewage system.

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### 7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : Tightly closed Dry .In a well ventilated place. Away from combustible materials. Keep away from sources of ignition and heat. At  $+15^{\circ}\text{C}$  to  $+25^{\circ}\text{C}$  . Accessible only for authorised persons.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : required when dusts are generated .

Eye protection : required

Hand protection : required

Protective clothing should be selected for the working place depending on concentration and quantity of the hazardous substance handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier

Industrial hygiene : Change contaminated clothing . Application of skin protective barrier cream recommended . Wash hands after working with substance .

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid  
Colour : reddish brown  
Odour : odourless  
PH value :  $< 1$   
At 50g/l ( $20^{\circ}\text{C}$ )  
Melting temperature :  $-197^{\circ}\text{C}$   
Boiling temperature : not available  
Ignition temperature : not available



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Flash point : not available  
Explosion limits lower: not available  
Upper : not available  
Density (20<sup>0</sup> C) : 2.7 g/cm<sup>3</sup>  
Solubility in water ( 20<sup>0</sup>C) : 1660 g/l

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### 10. STABILITY AND REACTIVITY

Conditions to be avoided : strong heating.

Substance to be avoided: organic combustible substances ( alcohols, amines, ethers, ketones, carboxylic acids ), alkali metals , ammonia, non metals, halogen- halogen compounds, hydrazine and derivatives, nitrates, reducing agents, nitric acids, combustible substances.

Hazardous decomposition products: no information available.

Further information: hygroscopic; strong oxidising agent.

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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD<sub>50</sub> (oral, rat): 80 mg/Kg

Subacute to chronic toxicity:

Animal experiments performed under conditions comparable with the workplace situation have shown the substance to be carcinogenic.

Further toxicological information

After inhalation: burns. Possible allergic reactions of the airways( risk of pneumonia!) and damage to the nasal mucous membranes ( under certain circumstances, risk of septum perforation ).



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After skin contact: Penetration of the substance into wounds causes poorly healing ulcers. In a sensitive persons the substance easily causes sensitisation.

After eye contact: burns

After swallowing: severe pain in the gastro intestinal tract.

Systemic effects: absorption can lead to kidney and liver damage.

Further data: This substance should be handled with usual care when dealing with chemicals.

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### **12. ECOLOGICAL INFORMATION**

Ecotoxic effects: the following applies to chromium ions in general:

biologic effects: fish: Toxic as from 52 mg/l up; LC<sub>50</sub> : 29 mg/l/96h; algae toxic as from 5 m/l up; daphnia toxic as from 0.32 mg/l up, calculated as sodium chromate.

Further ecologic data:

Do not allow to enter waters, waste water or soil.

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### **13. DISPOSAL METHOD**

Product : There are no uniform EC regulations for The disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations . We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

Packaging : Disposal in compliance with official Regulations . Handle contaminated packaging as In the same way as the substance itself . If not officially specified differently , non – contaminated packaging may be treated like household waste or recycled.

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### 14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class: 5.1 Number and letter:31b

ADR/RID class : 5.1 Number and letter:31b

Name of material : CHROMIC ACID

River transport AND/ADNR: Not examined

Sea transport IMDG : IMDG class:5.1 UN –No.:1463 Packaging group: II

Ems : 5.1-05 MFAG: 700

Correct technical name: CHROMIC ACID

Air transport

ICAO-TI and IATA-DGR: ICAO/IATA class: 5.1/8 UN/ID-No.: 1463 Packaging group:

Correct technical name: CHROMIC ACID

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### 15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : O Oxidising  
T Toxic  
C Corrosive  
N Dangerous for the environment.

R- Phrases : 49-8-25-35-43-50/53

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S-phrases : 53-45-60-61

Avoid exposure – obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately. This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

Water pollution class : 3 ( highly polluting substance)

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### **16. OTHER INFORMATION**

#### Reason for alteration

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions . It does not represent a guarantee of the properties of the product.

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