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### Safety data sheet(SDS)

According to Regulation (EC) No.1907/2006

Revision: C

Date of Revision: 09.12.2019

### 1 Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers

Product Number GRM1057

Product Name Chromium trioxide

CAS No.: 1333-82-0 EC No.: 215-607-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

**1.2.1** Relevant identified uses Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Produced by HiMedia Laboratories Private Limited

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1.4 Emergency Tel. No.

Emergency Tel. No. Please contact the regional HiMedia representation in your country

#### 2 Hazards Identification

### 2.1 Classification of the substance or mixture CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]

Oxidising liquids, (Category 1), H271

Toxic if swallowed or in contact with skin, H301+H311

Skin corrosion or irritation, (Category 1A), H314

Sensitisation, Skin, (Category 1), H317

Acute toxicity, Inhaled, (Category 2), H330

Sensitisation, respiratory, (Category 1), H334

Germ cell mutagenicity, (Category 1B), H340

Carcinogenicity, (Category 1A), H350

Reproductive toxicity, (Category 2), H361f

Specific target organ toxicity, repeated exposure, (Category 1), H372

Hazardous to the aquatic environment, long term hazard, (Category 1), H410

#### 2.2 Label elements

#### Labeling according to Regulation (EC) No.1272/2008



Pictogram

Signal word Danger

Hazard Statement(s)

H271 May cause fire or explosion; strong oxidiser

H301+H311	Toxic if swallowed or in contact with skin		
H314	Causes severe skin burns and eye damage		
H317	May cause an allergic skin reaction		
H330	Fatal if inhaled		
H334	lay cause allergy or asthma symptoms or breathing difficulties if inhaled		
H340	May cause genetic defects		
H350	May cause cancer		
H361f	Suspected of damaging fertility		
H372	Causes damage to organs through prolonged or repeated exposure		
H410	Very toxic to aquatic life with long lasting effects		
Precautionary Statement(s)			

P201 Obtain special instructions before use.

P220 Keep/Store away from clothing/combustible materials.

Do not breathe dust/fume/gas/mist/vapours/spray. P260

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Wear respiratory protection.

#### 2.3 **Other Hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 3 **Composition/Information On Ingredients**

#### 3.1 Substances

Chromic anhydride; Chromium (VI) oxide Synonym

Molecular Formula: CrO₃ Molecular Weight: 99.99 CAS No.: 1333-82-0 EC No.: 215-607-8

Component		Classification	Concentration
Chromium t	rioxide		
CAS No.:	1333-82-0	As Per EC Regulation 1272/2008	100%
EC No.:	215-607-8	Ox. Liq. 1; Acute Tox.oral. 3; Skin Corr.	
		1A; Skin Sens. 1; Acute Tox.inhal.1, 2;	
		Resp. Sens. 1; Mut. 1A, 1B; Carc. 1A, 1B;	
		Repr. 2; STOT RE 1; Aquatic Chronic 1	
		H271; H301+H311; H314; H317; H330;	
		H334; H340; H350; H361f; H372; H410	

For the full text of the H-Statements and classification mentioned in this Section, see Section 16

#### 4 First Aid Measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### 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 with plenty of soap and water. Consult a physician.

### In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

#### 4.3 Indication of immediate medical attention and special treatment needed

No data available

### 5 Fire Fighting Measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

No data available.

#### 5.2 Special hazards arising from the substance or mixture

Chromium oxides

## **5.3** Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary

#### 5.4 Further information

No data available

#### 6 Accidental Release Measures

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

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

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see Section 13.

#### 7 Handling and Storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended Storage Temperature: Below 30°C

#### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

#### 8 Exposure Controls/Personal Protection

#### 8.1 Control parameters

Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

### Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

#### Eye/face protection

Faceshield and safety goggles.

### Skin protection

Handle with gloves.

#### **Body protection**

Complete suit protecting against chemicals.

#### Respiratory protection

Air-purifying respirators.

#### **Environment exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance

Dark red to purple to black crystals or flakes or powder or masses

Odour No data available **Odour Threshold** No data available No data available На Melting/freezing point No data available Initial boiling point and boiling range No data available Flash point No data available Upper/lower flammability or explosive limits No data available **Evaporation rate** No data available Flammability (Solid, gas) No data available Vapour pressure No data available Relative density No data available Water Solubility No data available Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available No data available Viscosity No data available **Explosive properties** Oxidizing properties No data available Vapour density No data available Thermal decomposition No data available

### 9.2 Other safety information

No data available

### 10 Stability and Reactivity

## 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Incompatible material

### 10.5 Incompatible materials

No data available

## 10.6 Hazardous decomposition products

Other decomposition products - refer section 5.2.

In the event of fire - refer section 5.

#### 11 Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

No data available

### Specific target organ toxicity- single exposure

No data available

### Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

No data available

### **Additional Information**

RTECS: GB6650000

### 12 Ecological Information

#### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 PBT and vPvB assessment

PBT and vPVB assessment not available Chemical safety assessment is not required

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

#### 13 Disposal Considerations

#### 13.1 Waste treatments methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

#### 13.2 Contaminated packaging

Dispose of as unused product.

### 14 Transport Information

14.1 UN-No

ADNR: 1463 ADR: 1463 IATA\_C: 1463 IATA\_P: 1463 IMDG: 1463 RID: 1463

14.2 UN proper shipping name

ADNR : Chromium trioxide, anhydrous
ADR : Chromium trioxide, anhydrous
IATA\_C : Chromium trioxide, anhydrous
IATA\_P : Chromium trioxide, anhydrous
IMDG : Chromium trioxide, anhydrous
RID : Chromium trioxide, anhydrous

14.3 Transport hazard class(es)

ADNR: 5.1(6.1,8) ADR: 5.1(6.1,8) IATA\_C: 5.1(6.1,8) IATA\_P: 5.1(6.1,8) IMDG: 5.1(6.1,8) RID: 5.1(6.1,8)

14.4 Packaging group

ADNR : II ADR : II IATA\_C : II IATA\_P : II IMDG : II RID : II

14.5 Environmental hazards

ADNR: No ADR: No IMDG: Marine Pollutant: Yes IATA\_C: No IATA\_P: No RID: No

14.6 Special precautions for use

No data available

#### 15 Regulatory Information

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

# 15.1 Safety health and environment regulations/legislation specific for the substance or

mixture

No data available

### 15.2 Chemical Safety Assessment

No data available

#### 16 Other information

Text of H-Statements and EUH-Phrases mentioned in section 3

H271 May cause fire or explosion; strong oxidiser
H301+H311 Toxic if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction

H330 Fatal if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled

H340 May cause genetic defects

H350 May cause cancer

H361f Suspected of damaging fertility

H372 Causes damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

Ox. Liq. 1 Oxidising liquids, Category 1
Acute Tox.oral. 3 Acute toxicity, oral, Category 3

Skin Corr. 1A Skin corrosion or irritation, Category 1A

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Skin Sens. 1 Sensitisation, Skin, Category 1

Acute Tox.inhal.1, 2 Acute toxicity, inhaled, Category 1, 2
Resp. Sens. 1 Sensitisation, respiratory, Category 1
Mut. 1A, 1B Germ cell mutagenicity, Category 1A, 1B

Carc. 1A, 1B Carcinogenicity, Category 1A, 1B Repr. 2 Reproductive toxicity, Category 2

STOT RE 1 Specific target organ toxicity, repeated exposure, Category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, long term hazard, Category 1

#### **Further Information**

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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.