

# Part of Thermo Fisher Scientific

# Material Safety Data Sheet

Creation Date 21-Sep-2010 Revision Date 21-Sep-2010

**Revision Number 1** 

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Chromic oxide

Cat No. C333-3; C334-500

Synonyms Chromium (III) oxide; Chrome Green; Chromic sesquioxide (Powder/Technical/Certified)

Recommended Use Laboratory chemicals

CompanyEmergency Telephone NumberFisher ScientificCHEMTREC®, Inside the USA: 800-

One Reagent Lane 424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 703-

Tel: (201) 796-7100 527-3887

## 2. HAZARDS IDENTIFICATION

CAUTION!

**Emergency Overview** 

May cause eye, skin, and respiratory tract irritation. Hygroscopic.

Appearance Green Physical State Powder odor odorless

Target Organs Kidney

**Potential Health Effects** 

**Acute Effects** 

**Principle Routes of Exposure** 

Eyes May cause irritation Skin May cause irritation

**Inhalation** May cause irritation of respiratory tract. May be harmful if inhaled.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.

Chronic Effects Tumorigenic effects have been reported in experimental animals.. May cause adverse kidney

effects.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	CAS-No	Weight %
Chromium (III) oxide	1308-38-9	99

## 4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Flash Point Not applicable

MethodNo information available.Autoignition TemperatureNo information available.

**Explosion Limits** 

Upper No data available Lower No data available

Substance is nonflammable; use agent most appropriate to

extinguish surrounding fire..

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products

No information available.

Sensitivity to mechanical impactNo information available.Sensitivity to static dischargeNo information available.

Specific Hazards Arising from the Chemical

Non-combustible.

**Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 1 Flammability 0 Instability 1 Physical hazards N/A

## 6. ACCIDENTAL RELEASE MEASURES

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Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

**Environmental Precautions** Should not be released into the environment.

**Methods for Containment and Clean** 

Un

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust

formation.

## 7. HANDLING AND STORAGE

**Handling** Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do

not breathe dust. Avoid contact with skin and eyes.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and

safety showers are close to the workstation location.

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

**Personal Protective Equipment** 

Eye/face Protection

Skin and body protection Respiratory Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StatePowderAppearanceGreenodorodorless

Odor Threshold No information available.

**pH** 5-7

Vapor Pressure

Vapor Density

Viscosity

Boiling Point/Range
Melting Point/Range

No information available.
No information available.
No information available.
4000°C / 7232°F
2435°C / 4415°F

**Decomposition temperature**No information available.

Flash Point Not applicable

Evaporation Rate No information available.

Specific Gravity 5.210

**Solubility** No information available.

log Pow No data available

Molecular Weight 151.99
Molecular Formula Cr2 O3

## 10. STABILITY AND REACTIVITY

Stability Stable under normal conditions. Hygroscopic.

**Conditions to Avoid** Avoid dust formation. Incompatible products. Exposure to moist air

or water. Exposure to moisture.

**Incompatible Materials** Metals

None under normal use **Hazardous Decomposition Products** 

**Hazardous Polymerization** Hazardous polymerization does not occur.

Hazardous Reactions. None under normal processing.

# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

**Product Information** No acute toxicity information is available for this product

**Component Information** 

Irritation No information available.

**Toxicologically Synergistic** 

**Products** 

No information available.

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available. **Mutagenic Effects** No information available. No information available. **Reproductive Effects Developmental Effects** No information available.

No information available. **Other Adverse Effects** Tumorigenic effects have been reported in experimental animals.. See actual entry in RTECS

for complete information.

**Endocrine Disruptor Information** No information available

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

**Teratogenicity** 

## 12. ECOLOGICAL INFORMATION

Do not empty into drains.

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

No information available

No information available

# 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

## 15. REGULATORY INFORMATION

## International Inventories

Component	TSCA	DSL	NDSL	<b>EINECS</b>	<b>ELINCS</b>	NLP	PICCS	ENCS	AICS	CHINA	KECL
Chromium (III) oxide	Х	Х	-	215-160-	-		Х	Χ	Χ	Χ	KE-
				9							10237
											X

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

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Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## **U.S. Federal Regulations**

TSCA 12(b) Not applicable

**SARA 313** 

Not applicable

## SARA 311/312 Hazardous Categorization

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

## **Clean Water Act**

Not applicable

#### Clean Air Act

Not applicable

#### **OSHA**

Not applicable

#### **CERCLA**

Not Applicable

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Chromium (III) oxide	X	X	-	-	-

## **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

## **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

## **Other International Regulations**

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### **WHMIS Hazard Class**

Non-controlled

# **16. OTHER INFORMATION**

Prepared By Regulatory Affairs

Thermo Fisher Scientific Tel: (412) 490-8929

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**Revision Summary** "\*\*\*", and red text indicates revision

#### **Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**