

**CHROMIUM OXIDE GREEN 5376**

Version 4.0      Revision Date: 12/18/2020      SDS Number: 400000004937      Date of last issue: 07/16/2019  
Date of first issue: 01/13/2017

**SECTION 1. IDENTIFICATION**

Product name : CHROMIUM OXIDE GREEN 5376

**Manufacturer or supplier's details**

Company name of supplier : Venator Americas LLC  
Address : 10001 Woodloch Forest Drive  
The Woodlands,  
TX 77380  
United States of America (USA)  
Telephone : (001) 844 831 6720  
Telefax : (001) 281 465 6731  
E-mail address of person responsible for the SDS : msds@venatorcorp.com  
Emergency telephone number : USA & Canada: +1-800-424-9300    Other Americas: +1-703-741-5970 [CCN 820025]

**Recommended use of the chemical and restrictions on use**

Recommended use : Industrial use  
Colouring agents, pigments

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
chromium (III) oxide	1308-38-9	90 - 100

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

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**SECTION 4. FIRST AID MEASURES**

- General advice : Consult a physician.
- If inhaled : If breathed in, move person into fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash off with soap and water.  
Call a physician if irritation develops or persists.
- In case of eye contact : Rinse with water.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Dust contact with the eyes can lead to mechanical irritation.  
Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.  
The product is not irritant but as with all fine powders can absorb moisture and natural oils from the surface of the skin during prolonged exposure.  
Individuals with sensitive skin may experience skin drying on prolonged or repeated exposure.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician : No specific measures identified.
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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions.

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- Hazardous combustion products : Cr(VI): Hexavalent chromium
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Standard procedure for chemical fires.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Avoid dust formation.  
Remove all sources of ignition.  
Never return spills in original containers for re-use.  
Treat recovered material as described in the section "Disposal considerations".  
For disposal considerations see section 13.
- Environmental precautions : No special environmental precautions required.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.  
Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Avoid creating dusty conditions and prevent wind dispersal.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.
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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Minimize dust generation and accumulation.  
Avoid formation of respirable particles.  
Avoid inhalation, ingestion and contact with skin and eyes.  
Avoid exposure - obtain special instructions before use.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the

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technological safety standards.

Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
chromium (III) oxide	1308-38-9	TWA	0.5 mg/m <sup>3</sup> (chromium)	OSHA Z-1

**Engineering measures** : Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Eye protection

: Safety glasses  
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Protective measures

: Wear suitable protective equipment.

Hygiene measures

: Wash hands before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : green

Odour : odourless

Odour Threshold : No data is available on the product itself.

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pH : 5 - 9 Concentration: 10 %

Melting point : 4,111 °F / 2,266 °C

Boiling point : No data is available on the product itself.

Flash point : No data is available on the product itself.

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Flammability (liquids) : No data is available on the product itself.

Upper explosion limit / Upper flammability limit : No data is available on the product itself.

Lower explosion limit / Lower flammability limit : No data is available on the product itself.

Vapour pressure : No data is available on the product itself.

Relative vapour density : No data is available on the product itself.

Relative density : No data is available on the product itself.

Density : No data is available on the product itself.

Bulk density : 600 - 1,500 kg/m<sup>3</sup>

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Viscosity : No data is available on the product itself.

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable at normal ambient temperature and pressure.  
Stable under recommended storage conditions.

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Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Reacts with the following substances:  
May react with molten alkali at high temperatures under oxidizing conditions.  
chlorine trifluoride producing flame  
glycerol - may produce an explosion  
Stable under recommended storage conditions.

Conditions to avoid : Exposure to moisture

Incompatible materials : May react with molten alkali at high temperatures under oxidizing conditions.  
Lithium  
nitroalkanes  
dirubidium acetylide  
oxygen difluoride  
Strong oxidizing agents  
chlorine trifluoride producing flame  
glycerol - may produce an explosion

Hazardous decomposition products : A small amount (<0.1% as Cr) of reversion to hexavalent chromium may occur if the dry chromium (III) oxide powder is exposed to elevated temperatures.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : No data is available on the product itself.

**Acute toxicity****Components:**

chromium (III) oxide:

Acute oral toxicity : LD50 (Rat, male): > 15,000 mg/kg  
Method: OECD Test Guideline 401

**Components:**

chromium (III) oxide:

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : No data available

Acute toxicity (other routes of administration) : No data available

**Skin corrosion/irritation****Components:**

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chromium (III) oxide:  
Species: Rabbit  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Serious eye damage/eye irritation****Components:**

chromium (III) oxide:  
Species: Rabbit  
Result: No eye irritation  
Exposure time: 24 h  
Method: OECD Test Guideline 405

**Respiratory or skin sensitisation****Components:**

chromium (III) oxide:  
Exposure routes: Skin  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Not a skin sensitizer.

Assessment:                              No data available

**Germ cell mutagenicity****Components:**

chromium (III) oxide:  
Genotoxicity in vitro                      : Test system: Salmonella typhimurium  
Method: Mutagenicity (Salmonella typhimurium - reverse  
mutation assay)  
Result: negative

**Components:**

chromium (III) oxide:  
Genotoxicity in vivo                      : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Method: Mutagenicity (micronucleus test)  
Result: negative

**Carcinogenicity****Components:**

chromium (III) oxide:  
Species: Rat, male and female  
Application Route: Ingestion  
Exposure time: 2 Years  
Result: negative

Carcinogenicity - Assessment                      : No data available

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<b>IARC</b>	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.
<b>ACGIH</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Components:**

chromium (III) oxide:

Effects on fertility : Species: Rat, male and female  
General Toxicity - Parent: No observed adverse effect level: > 8 mg/kg body weight  
Result: Animal testing did not show any effects on fertility.

Effects on foetal development : No data available

Reproductive toxicity - Assessment : No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity****Components:**

chromium (III) oxide:

Species: Rat, male and female

NOAEL: 2,000 mg/kg

Application Route: Oral

Exposure time: 90 days

Method: OECD Test Guideline 408

Remarks: No significant adverse effects were reported

Species: Rat, male and female

LOAEL: 3 mg/m<sup>3</sup>

Application Route: Inhalation

Exposure time: 13 w

Method: OECD Test Guideline 413

Remarks: No significant adverse effects were reported



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Repeated dose toxicity -            : No data available  
Assessment

**Aspiration toxicity**

No data available

**Experience with human exposure**

General Information:            No data available

Inhalation:                        No data available

Skin contact:                      No data available

Eye contact:                        No data available

Ingestion:                         No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information**

Ingestion:                         No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:**

chromium (III) oxide:

Toxicity to fish                      : LC50 (Danio rerio (zebra fish)): > 10,000 mg/l  
Exposure time: 96 h  
Method: ISO 7346/1

Toxicity to daphnia and other       : No data available  
aquatic invertebrates

**Components:**

chromium (III) oxide:

Toxicity to algae/aquatic            : EC50 (Desmodesmus subspicatus (green algae)): 848 µg/L  
plants                                    Exposure time: 72 h

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Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : No data available

**Components:**

chromium (III) oxide:  
 Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): > 1,000 mg/l  
 Exposure time: 30 d  
 Method: OECD Test Guideline 210

**Components:**

chromium (III) oxide:  
 Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 0.014 mg/l  
 Exposure time: 21 d  
 Method: OECD Test Guideline 202

M-Factor (Chronic aquatic toxicity) : No data available

**Components:**

chromium (III) oxide:  
 Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
 Exposure time: 3 h  
 Method: ISO 8192

: EC50 (Other): 350 µmole/g  
 Exposure time: 42 d

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

**Persistence and degradability**

Biodegradability - Product : Result: Not readily biodegradable.

Biochemical Oxygen : No data available

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## Demand (BOD)

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage Treatment : No data available

**Bioaccumulative potential**

Bioaccumulation - Product : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : No data available

**Mobility in soil**

Mobility : No data available

Distribution among environmental compartments : No data available

Stability in soil : No data available

**Other adverse effects**

Environmental fate and pathways : No data available

Results of PBT and vPvB assessment - Product : 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.

Endocrine disrupting potential : No data available

Adsorbed organic bound halogens (AOX) : No data available

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**Hazardous to the ozone layer**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

Global warming potential (GWP) : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA**

Not regulated as dangerous goods

**IMDG**

Not regulated as dangerous goods

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****DOT Classification**

Not regulated as dangerous goods

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**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

chromium (III) oxide	1308-38-9	>= 90 - <= 100 %
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The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

chromium (III) oxide	1308-38-9
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**California Prop. 65**

WARNING: This product can expose you to chemicals including Arsenic (As), Cadmium (Cd), Chromium VI (Cr6+), Cobalt (Co), Lead (Pb), Mercury (Hg) and Nickel (Ni), present as trace impurities and not intentionally added, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**The components of this product are reported in the following inventories:**

CH INV	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory

**Inventories**

AICS (Australia), AII (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**TSCA - 5(a) Significant New Use Rule List of Chemicals**

No substances are subject to a Significant New Use Rule.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

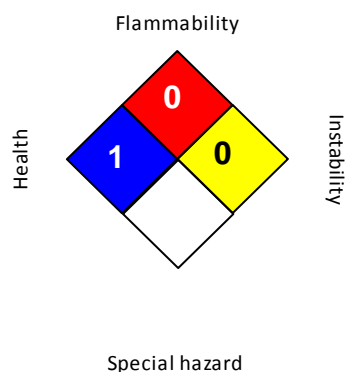
No substances are subject to TSCA 12(b) export notification requirements.

**TSCA - 5(a) Significant New Use Rule List of Chemicals**

No substances are subject to a Significant New Use Rule.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

No substances are subject to TSCA 12(b) export notification requirements.

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Date of first issue: 01/13/2017**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****HMIS® IV:**

<b>HEALTH</b>	*	1
<b>FLAMMABILITY</b>		0
<b>PHYSICAL HAZARD</b>		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

LABEL CODE : N/A

Sources of key data used to compile the Safety Data Sheet : Information taken from reference works and the literature., Information derived from practical experience.

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OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

OSHA Z-1 / TWA : 8-hour time weighted average

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