



Safety Data Sheet acc. to OSHA HCS

Printing date 04/17/2023

Reviewed on 04/17/2023

* 1 Identification

Product identifier**Trade name:** CATHAYCOAT™ CHROMIUM(III) OXIDE GREEN COLORS**Chemical Name:** Chromium(III) Oxide**Article number:** GA74/74M/76/76M/78/78M/85**Application of the substance / the preparation**

Inorganic pigment used as a colorant in industrial applications.

Details of the supplier of the safety data sheet**Manufacturer/Supplier:**OXERRA Americas, Inc.
2340 Kenyon Road
Bartlett, IL 60103
(USA)**Information department:** sds.management@oxerra.com**Emergency telephone number:**

Emergency Telephone of OXERRA Americas, Inc. : (540) 980-7233

PERS (Professional Emergency Resource Services) Customer Number 12060

Domestic & Canada 1-800-633-8253 International 1-801-629-0667

* 2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

Label elements**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Potential Health Effects****Inhalation**

No adverse effects are anticipated from single exposure to dust.

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Skin May cause mechanical irritation (abrasion).**Eyes** May cause mechanical irritation (abrasion).**Routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact.

However, ingestion is not likely to be a primary route of occupational exposure.

Classification system:**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

* 3 Composition/information on ingredients

CAS No. Description

CAS: 1308-38-9 Chromium (III) oxide

<90-100%

RTECS: GB 6475000 C.I.Pigment Green 17 (77288)

Chemical characterization: Mixtures**Dangerous components:** Void**Additional information:**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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Occupational exposure limits, if available, are listed in Section 8.
For the wording of the listed hazard phrases refer to section 16.

* 4 First-aid measures

Description of first aid measures

General information: Remove severely contaminated clothing and clean before reuse.

After inhalation:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

After skin contact:

Gently wash with plenty of soap and water.

In the event of any complaints or symptoms, avoid further exposure.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse mouth with water, give subject liquids to drink and do not induce vomiting.

Never give anything by mouth to an unconscious person.

If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

In case of inhalation:

No adverse effects are anticipated from single exposure to dust.

Dust may cause irritation to the respiratory tract.

In case of skin contact: May cause mechanical irritation (abrasion).

In case of eye contact: May irritate the eyes by mechanical effect.

In case of ingestion: No known significant effects or critical hazards.

Over/prolonged exposure signs/symptoms :

Eye contact : No specific data.

Inhalation : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Protection of first-aiders: No special measures required.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture

Not considered flammable but packaging, i.e. paper bags, wooden pallets, and plastic wrap will burn.

Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Wear fully protective suit.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

* 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

Ensure adequate ventilation

Put on appropriate personal protective equipment (see Section 8).

Keep away unnecessary and unprotected personnel.

Hazard of slipping on spilt product.

Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Do not allow product to reach sewage system or any water course.

Keep contaminated washing water and dispose of appropriately.

Even at low concentration, the product renders the discharge in liquid effluent highly visible.

Methods and material for containment and cleaning up:

Small spill

Ensure adequate ventilation.

Stop leak if without risk.

Pick up and arrange disposal without creating dust.

Sweep up and shovel.

Keep in suitable, closed containers for disposal.

Dispose of via a licensed waste disposal contractor.

Large spill

Ensure adequate ventilation.

Avoid creating dusty conditions and prevent wind dispersal.

Stop leak if without risk.

Pick up and arrange disposal without creating dust.

Sweep up and shovel.

Move containers from spill area.

Clean the affected area carefully; suitable cleaners are:

Warm water and cleansing agent

Dispose of via a licensed waste disposal contractor.

Reference to other sections

See Section 1 for emergency contact information.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

PAC-1:

CAS: 1308-38-9 Chromium (III) oxide

C.I.Pigment Green 17 (77288): 2.2 mg/m³

PAC-2:

CAS: 1308-38-9 Chromium (III) oxide

C.I.Pigment Green 17 (77288): 24 mg/m³

PAC-3:

CAS: 1308-38-9 Chromium (III) oxide

C.I.Pigment Green 17 (77288): 140 mg/m³

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* 7 Handling and storage

Handling:**Precautions for safe handling**

Open and handle receptacle with care.

Thorough dedusting.

Prevent formation of dust.

Provide suction extractors if dust is formed.

Ensure good ventilation/exhaustion at the workplace.

Ensure that suitable extractors are available on processing machines

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.

Any deposit of dust which cannot be avoided must be regularly removed.

Information about protection against explosions and fires:

The product is not flammable.

Plastic wrap from palletized packages may bear significant static charge which can cause flash fire if near combustibles.

Conditions for safe storage, including any incompatibilities**Storage:** Store in accordance with local regulations.**Requirements to be met by storerooms and receptacles:**

Keep in the original container or an approved alternative made from a compatible material.

Pigments should not be stored in outside areas exposed to the weather.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not store in unlabelled containers.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from incompatible materials (see section 10).

Further information about storage conditions:

Protect against physical damage.

Store in cool, dry conditions in well sealed receptacles.

Recommended storage temperature: <40-100> °F**Storage duration (months) :** 60**Specific end use(s)** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

* 8 Exposure controls/personal protection

Recommended monitoring procedures :

If this product contains ingredients with exposure limits, personal, workplace procedures atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Additional information about design of technical systems:

Mechanical ventilation may be required to maintain exposure levels below limits.

Control parameters**Components with limit values that require monitoring at the workplace:****CAS: 1308-38-9 Chromium (III) oxide****C.I.Pigment Green 17 (77288)**PEL Long-term value: 0.5 mg/m³

as Cr

REL Long-term value: 0.5 mg/m³

as Cr; See Pocket Guide App. C

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TLV Long-term value: 0.003 mg/m³
as Cr(III); A4; inhalable; soluble: DSEN;RSEN

Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs)
REL: Guide to Occupational Exposure Values (NIOSH RELs)
TLV: Guide to Occupational Exposure Values (TLV)

Ingredients with biological limit values:**Chromium and its compounds**

BEI 0.7 µg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Total chromium (population based)

Regulatory information BEI: Guide to Occupational Exposure Values (BEI)**Additional information:** The lists that were valid during the creation were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Handle in accordance with good industrial hygiene and safety practice.

Ensure that proper housekeeping measures are in place.

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and at the end of work.

Do not inhale dust.

Avoid contact with the eyes and skin.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets.

Ensure that washing facilities are available at the work place.

Wash contaminated clothing before reusing.

Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



Dust-protection mask.

Particle filter with high efficiency for solid particles type, recommended type OV/AG/P99.97 (US) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH.

Protection of hands:

Gloves impervious to dust.

Wash and dry hands.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Use equipment for hands protection tested and approved under appropriate government standards such as NIOSH.

Material of gloves

No special glove composition is required.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

Minimum breakthrough time / gloves : > 480 min

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Use safety glasses with side-shields or goggles to protect against airborne dust.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

Body protection:



Protective work clothing

Limitation and supervision of exposure into the environment

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

* 9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Powder
Color:	Olive green
Odor:	Odorless

pH-value (100 g/l) at 25 °C (77 °F): 7.5 - 8.5 (ISO 787-9)

Change in condition

Melting point/Melting range: >1000 °C (>1,832 °F)

Flash point: Not applicable.

Flammability (solid, gaseous): The product is not flammable.

Ignition temperature: Product is not selfigniting.

Danger of explosion: The product does not present an explosion hazard.

Upper:

Oxidizing properties: No oxidizing properties.

Vapor pressure: The product is a non-volatile solid.

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Specific gravity at 20 °C (68 °F):	c.a. 5.2 g/cm ³ (c.a. 43.39 lbs/gal) (ISO 787-10)
Bulk density at 20 °C (68 °F):	800 - 1100 kg/m ³ (ISO 787-11)
Relative density (Water = 1)	Not determined.
Vapor density (air = 1)	The product is a non-volatile solid.
Evaporation rate	The product is a non-volatile solid.
Solubility in / Miscibility with	
Water:	Insoluble.
Organic solvents:	Insoluble.
Viscosity:	
Dynamic:	Not applicable due to the nature of the product (solid).
Kinematic:	Not applicable due to the nature of the product (solid).
Other analytical data :	
VOC content:	None.
Other information	No further relevant information available.

* 10 Stability and reactivity

Reactivity No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

No decomposition if used and stored according to specifications (see Storage, Section 7).

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications (see Storage, Section 7).

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid Situations which cause dusting.

Incompatible materials: No further relevant information available.

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.

* 11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

Based on available data the classification criteria are not met.

Repeated dose toxicity : Based on available data, the classification criteria are not met.

Irritation / Corrosion : Based on available data, the classification criteria are not met.

Sensitization : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Genetic toxicity : Based on available data, the classification criteria are not met.

Toxicity to reproduction :

Toxicity to reproduction: Based on available data, the classification criteria are not met.

Teratogenicity : Based on available data, the classification criteria are not met.

Neurotoxicity : No data available.

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact.

However, ingestion is not likely to be a primary route of occupational exposure.

Potential acute health effects : Health injuries are not known or expected under normal use.

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Inhalation : No adverse effects are anticipated from single exposure to dust.**Ingestion** : Not known significant effects or critical hazards.**Skin** : Not known significant effects or critical hazards.**Primary irritant effect:****on the skin**: May cause mechanical irritation (abrasion).**on the eye**: Solid or dust may cause irritation or corneal injury due to mechanical action.**by inhalation**: Dust may cause irritation to the respiratory tract.**Skin sensitization** : This product is not expected to cause skin sensitization.**Respiratory sensitization** : This product is not expected to cause respiratory sensitization.**Specific target organ toxicity****Single exposure** Not known significant effects or critical hazards.**Repeated exposure** Inhalation - May cause respiratory irritation.**Subacute to chronic toxicity:**

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenic categories**IARC (International Agency for Research on Cancer)**

CAS: 1308-38-9 Chromium (III) oxide

C.I.Pigment Green 17 (77288): 3

NTP (National Toxicology Program)

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.

OSHA-Ca (Occupational Safety & Health Administration)

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH (American Conference of Governmental Industrial Hygienists) :

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.

*** 12 Ecological information****Aquatic toxicity:**

Based on the high insolubility of the pigment under environmental conditions, no reversible or irreversible adverse toxicological effects on aquatic or terrestrial organisms are expected.

Short-term toxicity : Based on available data, the classification criteria are not met.**Long-term toxicity** : Based on available data, the classification criteria are not met.**Sediment toxicity** : Based on available data, the classification criteria are not met.**Terrestrial toxicity :****Toxicity to terrestrial plants** : No data available.**Toxicity to terrestrial arthropods** No data available.**Toxicity to soil microorganisms** : No data available.**Toxicity to birds** : No data available.**Persistence and degradability** Based on previous experience, this product is inert and non-degradable.**Behavior in environmental systems:****Bioaccumulative potential**

Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Mobility in soil Insoluble. Expected to remain on soil surface.**Ecotoxicological effects:****Remark:**

The product does not contain heavy metals in concentrations of concern for waste water.

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The product does not release nitrogen which can contribute to eutrophication.

The product does not contain phosphates or organophosphorus compounds.

Behavior in sewage processing plants:
Remark:

The product is easily removable from water by physico-chemical processes.

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

* 13 Disposal considerations

Waste treatment methods
Recommendation:

Dispose of in accordance with local, state, and federal regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Hazardous waste :

This product is not considered as hazardous waste per 40 CFR 261.24 or 261.33. However, the user should consult with the state regulatory agency before disposing of the material.

Disposal should be made in accordance with federal, state and local regulations.

Waste disposal key:

As sold, this product is not classified as a RCRA hazardous waste as defined by 40CFR261.

It is the responsibility of the user to determine RCRA classification of any product containing this material.

Uncleaned packagings:
Recommendation:

The generation of waste should be avoided or minimized wherever possible.

Dispose of packaging according to regulations on the disposal of packagings.

Packaging can be reused or recycled after cleaning.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

Special precautions :

Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

* 14 Transport information

UN-Number

DOT, ADR, ADN, IMDG, IATA

Void

UN proper shipping name

DOT, ADN, IMDG, IATA

Void

ADR

Void

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA

Class

Void

Packing group

DOT, ADR, IMDG, IATA

Void

Environmental hazards:
Marine pollutant:

No

Special precautions for user

Not applicable.

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**Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code**

Not applicable.

**Transport/Additional information:
UN "Model Regulation":**Keep separated from foodstuffs.
Void*** 15 Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture**
Sara**Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

CERCLA Hazardous Substances

None of the ingredients is listed.

CERCLA Reportable Quantities

None of the ingredients is listed.

Hazard Communication Standard (HCS)

None of the ingredients is listed.

SARA 302 Components :

Included in the regulation but with no data values. See regulation for further details.

Section 313 (Specific toxic chemical listings):

CAS: 1308-38-9 Chromium (III) oxide

C.I.Pigment Green 17 (77288) (<90-100%)

Sara (311, 312) hazard Class : Delayed (chronic) health hazard.**TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

Volatile Organic Compounds (VOC) : None.**Ozone Depleting Substances (ODS) :**

This product neither contains nor was manufactured with a Class I or Class II ozone depleting substance as defined by 40 CFR 82, Subpart A, Appendices A and B.

Clean Air Act - Hazardous Air Pollutants (HAP)

CAS: 1308-38-9 Chromium (III) oxide

C.I.Pigment Green 17 (77288)

Clean Water Act – Priority Pollutants (PP)

This product does not contain any priority pollutants defined by 40 CFR 401.15.

Resource Conservation and Recovery Act (RCRA):

Chromium and its compounds

Proposition 65**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Massachusetts Right To Know :

CAS: 1308-38-9 Chromium (III) oxide

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Minnesota Right To Know :

None of the ingredients is listed.

New Jersey Right-to-Know List:CAS: 1308-38-9 Chromium (III) oxide
C.I.Pigment Green 17 (77288)**New Jersey Special Hazardous Substance List:**

Chromium and its compounds: F3

Pennsylvania Right-to-Know List:

Chromium and its compounds

Pennsylvania Special Hazardous Substance List:

Chromium and its compounds: ES

Rhode Island Right to know :

None of the ingredients is listed.

Cancerogenity categories**EPA (Environmental Protection Agency)**CAS: 1308-38-9 Chromium (III) oxide
C.I.Pigment Green 17 (77288): D, CBD**TLV (Threshold Limit Value)**CAS: 1308-38-9 Chromium (III) oxide
C.I.Pigment Green 17 (77288): A4**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

Hazard pictograms Void**Signal word** Void**Hazard statements** Void**National regulations:****Information about limitation of use:****Chemical Weapons Convention List Schedule I** : Not listed.**Chemical Weapons Convention List Schedule II** : Not listed.**Chemical Weapons Convention List Schedule III** : Not listed.**U.S. Department of Homeland Security** This product does not contain chemicals regulated under DHS.*** 16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: EHS Department.**Date of preparation / last revision** 04/17/2023**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent
NOAEL : Non Observed Adverse Effects Level
LOAEL : Lowest observed adverse effect level
EC50 : Maximal effective concentration, 50 percent
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
NOAEC : No Observed Adverse Effect Concentration
NOEC : No Observed Effect Concentration

*** Data compared to the previous version altered.**