

This attachment must be read in conjunction with the accompanying Safety Data Sheet.

Product

Product name: Green Colortherm GN
Product Code(s): PCHRGRN, PCHRGRNB, RETPCHRGRN1KG, RETPCHRGRN25KG, TPCHRGRN
Cover note date: October 2022
SDS date: 01.06.2021
HSNO Status: Not Hazardous
DG Status: Not Dangerous Goods
Other Classifications: Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Supplier

Company: Peter Fell Ltd
Address: 81 Patiki Rd, Avondale, Auckland 1026, New Zealand
Telephone: +64 9 828 6460
Email: info@peterfell.co.nz

Emergency Telephone Number: 0800 764 766
(National Poison Centre)

SAFETY DATA SHEET

COLORTHERM GREEN GN



Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

Section 1: Identification

Product name : COLORTHERM GREEN GN
Product code : 000000000000003239

Manufacturer or supplier's details

Supplier : LANXESS Deutschland GmbH
Production, Technology,
Safety & Environment
51369 Leverkusen, Germany

Responsible Department : +49 221 8885 2288
infosds@lanxess.com

Emergency telephone number : YLXS-YADD00000000196
For 24/7 multilingual emergency please call toll free
CHEMTREC New Zealand: 0800 425 459 and mention CCN
1001750.

Section 2: Hazard identification

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Substance
Chemical nature : Cr2O3

Components

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

Section 4: First-aid measures

Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

- General advice : Do not leave the victim unattended.
- If inhaled : Move the victim to fresh air.
Get medical attention if symptoms occur.
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
If unconscious, place in recovery position and get medical attention immediately.
Loosen tight clothing such as a collar, tie, belt or waistband.
- In case of skin contact : No special measures required.
- In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
If easy to do, remove contact lens, if worn.
Continue to rinse for at least 10 minutes.
Get medical attention if symptoms appear.
- If swallowed : No special measures required.

Most important symptoms and effects, both acute and delayed

- Symptoms : See Section 11 for more detailed information on health effects and symptoms.
- Risks : See Section 11 for more detailed information on health effects and symptoms.
- Notes to physician : Treat symptomatically.

Section 5: Fire-fighting measures

- Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire-fighting : No information available.
- Hazardous combustion products : The product itself does not burn.

Metal oxides
- Specific extinguishing methods : Standard procedure for chemical fires.
Promptly isolate the scene by removing all persons from the

Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

vicinity of the incident if there is a fire.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.
Keep unnecessary and unprotected personnel from entering.
Avoid breathing dust.
Use personal protective equipment.
Avoid dust formation.

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

Hygiene measures : General industrial hygiene practice.

When using do not eat, drink or smoke.
Wash face, hands and any exposed skin thoroughly after handling.
Wash contaminated clothing before reusing.

Conditions for safe storage : Store in accordance with local regulations.
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.
Keep containers tightly closed in a dry, cool and well-

SAFETY DATA SHEET

COLORTHERM GREEN GN



Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

ventilated place.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

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	WES-TWA	0.5 mg/m ³ (chromium)	NZ OEL

Engineering measures : This information is not available.

Personal protective equipment

Respiratory protection : Dust-protection mask if there is a risk of dust formation.

Filter type : P1 filter

Hand protection
Wearing time : < 60 min

Material : Leather gloves

Eye protection : Safety glasses

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Additional body garments should be used (e.g. sleevelets, apron, disposable suit etc.), based on the task being performed.

Section 9: Physical and chemical properties

Appearance : powder

Physical state : solid

Colour : green

Odour Threshold : No data available

SAFETY DATA SHEET

COLORTHERM GREEN GN



Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

pH : 5 - 7
Concentration: 5 %

Melting point/range : 2,435 °C

Boiling point/boiling range : 4,000 °C
(1,013 hPa)

Flash point : No data available

Evaporation rate : No data available

Self-ignition : No data available

Burning number : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative density : No data available

Density : 5.2 g/cm³ (20 °C)

Solubility(ies)
Solubility in other solvents : No data available

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

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Section 10: Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : No decomposition if stored and applied as directed.

Hazardous decomposition products : No decomposition if stored and applied as directed.

Section 11: Toxicological information

Acute toxicity

Not classified based on available information.

Components:

chromium (III) oxide:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

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
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Dosage caused no mortality

Skin corrosion/irritation

Not classified based on available information.

Components:

chromium (III) oxide:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

Serious eye damage/eye irritation

Not classified based on available information.

COLORTHERM GREEN GN

Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

Components:**chromium (III) oxide:**

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
GLP : yes

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:**chromium (III) oxide:**

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.
GLP : yes

Chronic toxicity**Germ cell mutagenicity**

Not classified based on available information.

Components:**chromium (III) oxide:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative
GLP: yes

COLORTHERM GREEN GN

Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

Carcinogenicity

Not classified based on available information.

Components:**chromium (III) oxide:**

Species : Rat, male and female
Application Route : Oral
Exposure time : 2 Years
Dose : 2000 - 10000 - 50000 parts per million
Method : OECD Test Guideline 451
Result : negative
GLP : yes
Remarks : Test results on an analogous product

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity**Components:****chromium (III) oxide:**

Species : Rat, male and female
NOAEL : >= 50000 ppm
Application Route : Oral
Exposure time : 2 yr
Number of exposures : daily
Dose : 2000 - 10000 - 50000 ppm
GLP : yes
Remarks : Chronic toxicity
Test results on an analogous product

Species : Rat, male and female
NOAEC : 15 mg/m³
LOAEL : 44 mg/m³
Application Route : inhalation (dust/mist/fume)
Exposure time : 90 d
Number of exposures : 5 days/week
Dose : 4,4 - 15 - 44 mg/m³
Method : OECD Test Guideline 413
Remarks : Subchronic toxicity

Aspiration toxicity

Not classified based on available information.

COLORTHERM GREEN GN

Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

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
Test Type: static test
Analytical monitoring: yes
Method: ISO 7346/1
GLP: yes
Remarks: nominal concentration
Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 14.1 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility
Fresh water
Test results on an analogous product
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 0.849 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: No toxicity at the limit of solubility
Fresh water
Test results on an analogous product
- EC10 (Desmodesmus subspicatus (green algae)): 0.0117 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: No toxicity at the limit of solubility
Fresh water
Test results on an analogous product
- Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): >= 1,000 mg/l
Exposure time: 30 d
Analytical monitoring: yes

SAFETY DATA SHEET

COLORTHERM GREEN GN

Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

Method: OECD Test Guideline 210
GLP: yes
Remarks: nominal concentration
Fresh water
Test results on an analogous product

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): ≥ 0.02 mg/l
Exposure time: 21 d
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: yes
Remarks: nominal concentration
No toxicity at the limit of solubility
Fresh water
Test results on an analogous product

Toxicity to microorganisms : EC50 (activated sludge): $> 10,000$ mg/l
Exposure time: 3 h
Analytical monitoring: no
Method: ISO 8192
GLP: yes
Remarks: nominal concentration
Fresh water

Persistence and degradability

Components:

chromium (III) oxide:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

Components:

chromium (III) oxide:

Partition coefficient: n-octanol/water : Remarks: Not applicable

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : The methods for determining the biological degradability are not applicable to inorganic substances.

SAFETY DATA SHEET

COLORTHERM GREEN GN



Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

Section 13: Disposal considerations

Disposal methods

- Waste from residues : Examine possibilities for re-utilisation.
Product residues and uncleaned empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations.
When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
-

Section 14: Transport information

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations

NZS 5433

Not regulated as a dangerous good

Hazard and Handling Notes.

Not dangerous cargo., Keep dry., Keep separated from foodstuffs.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Chemical Weapons Convention (CWC) : Not applicable
Schedules of Toxic Chemicals and Precursors

HSNO Approval Number

Not applicable

SAFETY DATA SHEET

COLORTHERM GREEN GN



Version 1.0 Revision Date: 01.06.2021 SDS Number: 203000012063 Date of last issue: -
Country / Language: NZ / 6N

HSW Controls

Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Date format : dd.mm.yyyy

Full text of other abbreviations

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

SAFETY DATA SHEET

COLORTHERM GREEN GN



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.06.2021	203000012063	Country / Language:NZ / 6N

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.