

MATERIAL SAFETY DATA SHEET

1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| DISTRIBUTOR/SUPPLIER: | Kolorsource LLC; A Nevada Limited Liability Corp. |
| ADDRESS and PHONE NUMBERS IN CASE OF EMERGENCY | Mail: 741 N. Kalaheo Ave., Kailua, Hawaii 96734 tel 808-263-7747 USA |
| PRODUCT NAME | Chrome Oxide Green Pigment |
| TRADE NAMES/SYNONYMS | Chrome Oxide; Green Chrome Oxide; Chromium (III) Oxide, 99%, Amorphous Powder |
| PRODUCT CODE | CAS 1308-38-9 |
| CHEMICAL CLASS | Inorganic chrome compound, inorganic salt. |
| CHEMICAL FORMULA | Cr ₂ O ₃ |

2- COMPOSITION AND INFORMATION ON INGREDIENTS

| CAS | NAME | Formula | Content |
|-----------|-----------------------|--------------------------------|---------|
| 1308-38-9 | Chrome oxide green | Cr ₂ O ₃ | 100% |

3- HAZARDS IDENTIFICATION

Appearance: green solid.

Danger! May cause allergic skin reaction. Oxidizer. Hygroscopic. Cancer suspect agent. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause cancer based on animal studies.

Target Organs: Lungs.

Potential Health Effects

4- FIRST AID

| LIMITS OF EXPOSURE | |
|---------------------------|--|
| LONG TIME EXPOSURE | ACUTE, CHRONIC |
| | FIRST AID |
| EYE CONTACT : Harmful. | In case of contact, immediately flush eyes with water for at least 15 min. Call a physician. |
| SKIN CONTACT : Harmful. | Flush skin with water and soap, Wash clothes before reuse. |
| INGESTION : Harmful. | If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid. |
| INHALATION : Harmful. | If not breathing perform artificial respiration, if breathing give fresh oxygen. Remove to fresh air and call a physician. |
| TOXIC TYPE : | |
| OTHER ADVISES : | |

5- FIRE FIGHTING MEASURES

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|-------------------------------|--|
| SUITABLE EXTINGUISHING AGENTS | As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Oxidizer. Greatly increases the burning rate of combustible materials. |
| PROTECTIVE EQUIPMENT | In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. |

6- ACCIDENTAL RELEASE MEASURES

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| PERSON RELATED SAFETY PRECAUTIONS | Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation |
| MEASURES FOR ENVIRONMENTAL PROTECTION | Inform respective authorities in case of seepage into water course or sewage system. Do not allow material to be released to the environment without proper governmental permits. |
| MEASURES FOR CLEANING / COLLECTING | Dispose contaminated material as waste according to item 13. |
| OTHER PROCEDURES | See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. |

7- HANDLING AND STORAGE

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|---------------------------------|---|
| STORING and LOADING PRECAUTIONS | Keep away from eye and skin contact. Place in closed containers. Keep away from food. If contacted wash thoroughly. |
| HANDLING | Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Open and handle container with care. |
| OTHERS | Do not inhale and protect from flammable media. |

8- EXPOSURE CONTROLS AND PERSONAL PROTECTION

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 0.5 m per second.

Personal Protection

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|-----------------------------|---|
| EYES | Safety glasses or goggles. Eye-flushing stations. |
| SKIN | Rubber gloves and protective clothes, apron, impervious gloves. |
| INHALATION | Use required respirators in case of high concentrations. |
| LOCAL VENTILATION EXITS | Mechanical(General) local ventilation is enough. |
| OTHER PROTECTIVE EQUIPMENTS | The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Store protective clothing separately. |

9- PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------|----------------------|----------------------------|-----------|
| FORM | Solid | SOLUBILITY IN WATER | Insoluble |
| MELTING POINT | 844°C | COLOUR | Green |
| BOILING POINT | | ODOR | Odorless |
| FREEZING POINT | | MOLECULAR WEIGHT | 151,99 |
| BULK DENSITY | 900kg/m ³ | EVAPORATION DENSITY | N/A |
| ±15 % | | EVAPORATION RATE | N/A |
| SPECIFIC GRAVITY | 5,21±0,1 | pH | N/A |
| OTHER DATA | | | |

10- STABILITY AND REACTIVITY

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|--|---|
| STABILITY | Stable under normal conditions |
| UNSTABILITY REASONS | Chlorine trifluoride, glycerol, lithium, rubidium acetylide, and oxygen difluoride. |
| POLIMERIZATION and ITS DANGERS | None. |
| UNSTABILITY CONDITIONS and DECOMPOSITION MATERIALS | None. |

11- TOXICOLOGICAL INFORMATION

Acute toxicity and primary irritant effect.

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|---------------|---|
| ON THE SKIN | No data available. |
| ON THE EYE | No data available. |
| SENSITIZATION | No sensitizing effects known. |
| MUTAGENEICITY | Hamster, lung cell: 34 mg/L caused sister chromatid exchange. |

Carcinogenicity: Chromimium (III) Oxide

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Group 3 carcinogen

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Neurotoxicity: No data available.

12- ECOLOGICAL INFORMATION

US FEDERAL

TSCA: CAS# 1308-38-9 is listed on the TSCA inventory.

Health & Safety Reporting List:

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules:

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b:

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule:

None of the chemicals in this material have a SNUR under TSCA.

SARA:

CERCLA Hazardous Substances and corresponding RQs:

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances:

None of the chemicals in this product have a TPQ.

SARACodes: CAS # 1308-38-9: acute, chronic.

Section 313:

This material contains Chromimium (III) Oxide, which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

CAS# 1308-38-9 is listed as a Priority Pollutant under the Clean Water Act.

CAS# 1308-38-9 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

OSHA considers none of the chemicals in this product highly hazardous.

13- DISPOSAL INFORMATION

Consult state, local or national regulations for proper disposal. Disposal must be made according to official regulations.

14- TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RID CLASS : None dangerous goods

U.N. NUMBER :

ITEM :

Maritime transport IMDG:

IMDG CLASS : None dangerous goods.

PAGE NUMBER :

U.N. NUMBER :

PACKING GROUP :

15- REGULATIONS

No labelling is required.

Professionals should use this information only as a supplement to other information gathered by the, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of the public. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.