

CHROMOGEN™ INTEGRAL COLOR



Material Safety Data Sheet - 09/2010

I. PRODUCT IDENTIFICATION

PRODUCT NAME Chaotic Pigments Chromogen™ Integral Color Green
PRODUCT CODES 6010
CHEMICAL FAMILY Inorganic Metal Oxides
CHEMICAL NAME Chromium (III) Oxide (trivalent)
SYNONYMS Chromium Oxide
CAS NUMBER 1308-38-9
DOT CLASS / FREIGHT CLASS Non regulated / Chromium Compound : NOI
OSHA HAZARD COMMUNICATION STATUS See section 3. Hexavalent chromium, which is present only in trace quantities, is considered to be a hazardous chemical under 29CFR 1910.1200. See OSHA News Release 06-342-NAT.
CHEMICAL FORMULA Cr₂O₃

II. INGREDIENTS

COMPONENTS	CAS Number	%	OSHA-PEL	ACGIH-TLV
CHROMIUM (III) Oxide	1308-38-9	≤98	0.5 mg/m ³	0.5 mg/m ³
HEXAVALENT CHROMIUM	13530-68-2	<50 ppm	0.005 mg/m ³	not established

III. PHYSICAL DATA

APPEARANCE Fine Dry Powder
COLOR Green
ODOR Slight or none
MELT POINT/FREEZE POINT Not applicable
BOILING POINT Not applicable
VAPOR PRESSURE Not applicable
SPECIFIC GRAVITY 4.2 to 5.5
BULK DENSITY 45-75lb. Per cubic ft.
SOLUBILITY IN WATER Insoluble
% VOLATILE BY VOLUME Nil

IV. FIRE AND EXPLOSION DATA

FLASH POINT °F (°C) Not applicable
FLAMMABLE LIMITS
 Lel Not applicable
 Uel Not applicable
EXTINGUISHING MEDIA Not flammable
SPECIAL FIRE FIGHTING PROCEDURES None
UNUSUAL FIRE & EXPLOSIVE HAZARDS None

V. REACTIVITY DATA

STABILITY Stable
INCOMPATIBILITY None
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS None
HAZARDOUS POLYMERIZATION Will not polymerize

VI. HUMAN HEALTH DATA

PRIMARY ROUTE(S) OF EXPOSURE Eye and skin contact, inhalation, ingestion
EFFECTS AND SYMPTOMS OF ACUTE OVEREXPOSURE... Nuisance dust
CHRONIC EXPOSURE Long-term exposure to trivalent chromium compounds may cause chronic respiratory effects.

VI. HUMAN HEALTH DATA (CONTINUED)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Pre-existing irritations and lung dysfunctions may be aggravated by this product.

CARCINOGENICITY IARC: Not Listed NTP: Not Listed

Trivalent chromium is not listed as a carcinogen by NTP, IARC, or ACGIH. However, this product contains less than 50 ppm leachable hexavalent chromium. Hexavalent chromium is considered a human carcinogen. ATP, IARC, and ACGIH find "there is sufficient evidence for the carcinogenicity of chromium and certain chromium compounds in both humans and experimental animals.

EXPOSURE LIMITS

OSHA PEL	Chromium (III) Oxide - 0.5 mg/m3	Hexavalent chromium- 0.005 mg/m3
ACGIH TLV	Chromium (III) Oxide - 0.5 mg/m3	Hexavalent chromium- not established

VII. FIRST AID PROCEDURES

EYES Hold eyelids apart and flush eyes with gently flowing water for 5-10 minutes or until the chemical is removed. Seek medical attention if irritation develops or persists.

SKIN CONTACT Wash immediately with soap and water. Remove and wash clothing before re-wear.

INHALATION Move from exposure area to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Call a physician.

INGESTIONS Give one or two glasses of water and seek medical attention. If unconscious, seek medical attention and do not give anything by mouth.

VIII. PRECAUTIONS FOR SAFE HANDLING AND USE

IN THE EVENT OF MATERIAL SPILL Avoid exposure and generation of dust and wear protective clothing and recommended respiratory protection. Vacuum or scoop material into a suitable marked container for disposal. Spill areas can be washed with water but not allowed to runoff into waterways.

WASTE DISPOSAL METHOD Dispose of in accordance with local, state, and federal guidelines. As sold, this product meets the criteria for EP toxicity and should be managed as a RCRA hazardous waste.

STORAGE AND HANDLING PRECAUTIONS Store in dry area in tightly closed containers.

OTHER PRECAUTIONS None

IX. CONTROL MEASURES

RESPIRATORY PROTECTIONS Dust concentrations should be measured by a respiratory hygienist to determine the correct NIOSH/MSHA protective equipment.

VENTILATION Local exhaust and dust collection measures should be employed to maintain the dust level below recommended exposure limits.

PROTECTIVE GLOVES Wear gloves when handling

PROTECTIVE GLASSES Safety glasses or goggles

OTHER None

WORK/HYGIENE PRACTICES Wash thoroughly after handling and before eating. Keep away from food and beverages.

X. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING

AND STORAGE If material is removed from outer protective bag and inner PVA dust-free bag, material should be kept in closed container to minimize dust. Keep dry. Avoid breathing dust. Avoid contact with eyes and skin. Wash thoroughly after handling.

OTHER None

