

MATERIAL SAFETY DATA SHEET

Page 1 of 4

DATE: JULY 2007

CHEMICAL FAMILY: Inorganic
PRODUCT NAME: US079 GREEN STAIN
CAS #: 1308-38-9
CHEMICAL NAME: Chromic Oxide
CHEMICAL FORMULA: Cr₂O₃

This product is a blend of various metal oxides, salts and some other compounds which are interfused by high temperature calcination to form the insoluble finished product which typically does not exhibit the properties of the individual components.

HAZARDOUS COMPONENTS

Stain is a fused substance. The components of the final product listed below are from the inventory of potentially hazardous substances referenced by FED-OSHA in 29 CFR 1910.1200

COMPONENT	Exposure Limit (Air), mg/m³		
	ACGIH/TLV	FED-OSHA/PEL	CAL-OSHA/PEL
Chrome Oxide (Cr ₂ O ₃) (CAS 1313-13-2)	0.5	0.5	0.5

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

Symptoms of overexposure:

Inhalation: Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.
Eye Contact: Mechanical irritation to the eye may occur such as watering, reddening due to exposure to fines.

SARA III DATA

This product contains the following component(s) that require reporting under section 313 of the Emergency Section of the Emergency Planning and Community Right-To-Know Act, also known as Title III of the SARA and 40 CFR Part 372.

COMPONENT	PERCENT PRESENT
Chromium Compound	~ 100%

The percent reported is based on the theoretical composition of this Stain.

PHYSICAL DESCRIPTION/PROPERTIES:

APPEARANCE: Green powder.
ODOUR: None.
BOILING POINT: Not Applicable
MELTING POINT: > 600°C

This MSDS is for information only. Recipients will not receive updated copies unless requested –

"UNCONTROLLED COPY".

MATERIAL SAFETY DATA SHEET

Page 2 of 4

VAPOUR PRESSURE:	Not Applicable
SPECIFIC GRAVITY:	1.6 – 3.0
SOLUBILITY IN WATER:	Negligible
VISCOSITY:	No Data
pH:	Neutral
VOLATILE ORGANIC COMP:	None

FIRE & EXPLOSION HAZARD

FLASH POINT:	N/A
FLAMMABLE LIMITES:	N/A
EXTINGUISHING MEDIA:	None
USUAL FIRE & EXPLOSION HAZARD:	None

REACTIVITY DATA

STABILITY:	Stable
INCOMPATIBILITY:	N/A
HAZARDOUS DECOMPOSITION PRODUCTS:	Avoid fumes from firing
HAZARDOUS POLYMERISATION:	Will not occur

HEALTH HAZARD DATA**PRINCIPAL ROUTES OF ABSORPTION:** Inhalation and Ingestion

EFFECTS OF OVER EXPOSURE: Prolonged contact with stain dust can be very irritating to the eyes and/or skin. High dust levels can be irritating to the respiratory tract. Over exposure to dust may cause lung damage. With adequate ventilation, dust control and good personal hygiene, symptoms of over exposure should not occur. Ingestion of large amounts of stain may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea. Advise regular medical monitoring of employees by a physician competent in industrial health.

CARCINOGENICITY: N/A

EMERGENCY & FIRST AID PROCEDURES: If overexposure is suspected move employees to fresh air; if breathing is difficult give oxygen. Call a physician. For dust in eyes, flush immediately with clean water and call a physician. If ingested, give large amounts of water to induce vomiting, only in conscious person.

SOURCES OF HEALTH HAZARD DATA: The MSDS was developed from information on the constituent substances of this stain material, not from test data on the stain itself.

PRECAUTIONS FOR SAFE HANDLING AND USE:**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Uncontaminated material may be recovered and re-used. If contaminated, scoop, vacuum or wash into a receptacle or disposal.

WASTE DISPOSAL METHOD: Follow Federal or State and Local regulations for disposal.

MATERIAL SAFETY DATA SHEET

Page 3 of 4

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Protect containers against physical damage, store in a dry area away from feed and food products.

OTHER PRECAUTIONS: Employees should wash and change into clean clothes before going home.

CONTROL MEASURES

RESPIRATORY PROTECTION: Use a NIOSH approved dust and/or fume respirator as necessary.

VENTILATION: Local Exhaust – Recommended for dust control; vent dust to collector.

PROTECTIVE GLOVES: Use judgment – work gloves recommended.

EYE PROTECTION: Use judgment – safety glasses recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear appropriate clean, protective clothing such as, but not limited to coveralls, smock, aprons, gloves, shoes and hats.

WORK/HYGENIC PRACTICES: Food, beverages and smoking materials should NOT be in the working area. Hygiene is very important; employees should wash thoroughly before eating, drinking or smoking.

REGULATORY INFORMATION:**CLASSIFICATION AND LABELLING (EEC)****Classification:**

H

Label Information:

R-20 Harmful by inhalation.

R-22 Harmful if swallowed.

R-36/37/38 Irritating to eyes, respiratory system and skin.

S-7 Keep container tightly closed.

S-22 Do not breathe dust.

S-24/25 Avoid contact with skin and eyes.

S-28 After contact with skin, wash immediately with plenty of water.

S-51 Use only in well ventilated areas.

OTHER INFORMATION:**DISCLAIMER:**

MATERIAL SAFETY DATA SHEET

Page 4 of 4

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KEY/LEGEND:

NA = Not available or Not Applicable; ACGIH = American Conference of Governmental Industrial Hygienists; TLV = Threshold Limit Value; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; CAL/OSHA = California Occupational Safety and Health Administration; CFR = Code of Federal Regulations; FED/OSHS = Federal Occupational Safety and Health Administration; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; PEL = Permissible Exposure Limits; TSCA – Toxic Substances Control Act; TWA = Time Weighted Average; US-EPA = US Environmental Protection Agency

END OF MATERIAL SAFETY DATA SHEET