Safety Data Sheet DATE PREPARED 4/28/2015

UPDATED 6/15/2016

6600 IRON COBALT CHROMITE BLACK SPINEL

HMIS Classification:

Health 2* Flammability 0 Reactivity 0

Personal Protection See Section 8





1.1 Product identifier

Product name IRON COBALT CHROMITE BLACK SPINEL

Iron Cobalt Chromite Black Spinel, an inorganic pigment, is a reaction product of high temperature calcination in which Iron (II) Oxide, Cobalt (II) Oxide, Iron (III)

Oxide, and Chromium (III) Oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix of spinel.

Its composition may include any one or a combination of the modifiers Al2O3, B2O3, CuO, MnO, NiO, or SiO2

 Product number
 6600 BEST BLACK

 EC no.
 269-060-5

 CAS no.
 68186-97-0

 Index no.
 C.I. 77502

1.4 Supplier's details

Name Mason Color Works Inc.

Address 250 East Second Street

East Livepool, Ohio 43920

USA

 Telephone
 330 385 4400

 Fax
 330 385 4488

SECTION 2: Hazard identification

Signal Word: WARNING

GHS classification in accordance with OSHA (29 CFR 1910.1200)

H303: May be harmful if swallowed H313: May be harmful in contact with skin H317: May cause an allergic skin reaction

H333: May be harmful if inhaled H335: May cause respiratory Not a hazardous substance
P261: Avoid breathing dust.
P262: Do not get in eyes, on skin.
P264: Wash hands thoroughly after handling.



SECTION 3: Composition/information on ingredients

6600 IRON COBALT CHROMITE BLACK SPINEL C.I. Pigment Black 27 100%

 EC no.
 269-060-5

 CAS no.
 68186-97-0

 Index no.
 C.I. 77502

 Formula
 (Co,Fe)(Fe,Cr)2O4

SECTION 4: First-aid measures

• Contact with skin: Wash with plenty of water and soap.

•Contact with eyes: Wash immediately with water for at least 10 minutes.

• Swallowing: SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.

A suspension of activated charcoal in water, or liquid paraffin may be administered.

•Inhalation: Ventilate the premises.

The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area.

Should the patient feel unwell, OBTAIN MEDICAL ATTENTION

SECTION 5: Fire-fighting measures

• Recommended extinguishers: Water, CO2, Foam, Chemical powders, according to the materials involved in the fire.

•Extinguishers not to be used: None in particular.
•Risks arising from combustion: Avoid inhaling the fumes.

• **Protective equipment:** Use protection for the respiratory tract.

SECTION 6: Accidental release measures

• Measures for personal safety: Use gloves and protective clothing. In the event of particulates aerosols use respiratory protection.

• Environmental measures: . Keep away from drains, surface- and ground-water and soil

•Cleaning methods: Limit leakages with earth or sand. If the product has escaped into a water

course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Remove the waste materials with a suitable device (for instance a suction pump) and dispose. After the product has been recovered, rinse the area and materials involved with water.

SECTION 7: Handling and storage

• Handling precautions: Wear suitable gloves, glasses and face protection. Avoid contact and inhalation of the vapours/powders.

Do not eat or drink while working.

•Incompatible materials: None in particular.

•Storage conditions: Always keep the containers tightly closed.
•Instructions as regards storage premises: Adequately ventilated premises.

SECTION 8: Exposure controls / personal protection

5 mg/m³ (respirable)

Nickel, Metal (as Ni) 0.2 mg/m³ 1 mg/m³ 0.015 mg/m³

• Precautionary measures: Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:
 Protection for hands:
 Not needed for normal use.
 Eye protection:
 Not needed for normal use.

• **Protection for skin:** No special precaution must be adopted for normal use.

SECTION 9: Physical and chemical properties

Appearance/form	black/powder
Odor	None
SPECIFIC GRAVITY	5.2
рН	6.4
Melting point/freezing point	>1000c
Initial boiling point and boiling range	NA
Flash point	NA
Evaporation rate	NA
Flammability (solid, gas)	none
Upper/lower flammability limits	NA
Upper/lower explosive limits	NA
Vapor pressure	NA
Vapor density	NA
Relative density	NA
Solubility(ies)	insoluble
Partition coefficient: n-octanol/water	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity	NA
Explosive properties	none
Oxidizing properties	none

SECTION 10: Stability and reactivity

Chemical stability STABLE

Possibility of hazardous reactions WILL NOT OCCUR

Incompatible materials NONE

Hazardous decomposition products N/A

SECTION 11: Toxicological information

ORAL LD50 (male and female rats) > 2000 mg/kg bw

INHALATION LC50 (rats; 4 hours) > 5.09 mg/L air (actual concentration)

SKIN N/A

NON IRRITATING TO THE SKIN NON IRRITATING TO THE EYES

THIS PIGMENT IS NOT LISTED IN THE NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS.

IT IS NOT LISTED AS A POTENTIAL CARCINOGEN IN THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER(IARC) MONOGRAPHS.

IT IS NOT FOUND TO BE A CARCINOGEN BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION(OSHA)

SECTION 12: Ecological information

ECOTOXICITY NO DATA
DEGRADABILITY NO DATA
MOBILITY NO DATA
BIOACCUMULATIVE NO DATA

SECTION 13: Disposal considerations

Disposal of the productContain spillage and scoop or vacuum. Avoid making dust

put in appropriate container for disposal. Waste disposal method in accordance with

 $\label{eq:Federal} \textit{Federal, State and Local Laws}.$

Disposal of contaminated packaging Dispose of as unused product.

Waste treatment MUST BE PROCESSED THROUGH IN-HOUSE TREATMENT

Sewage disposal AVOID CITY DRAINS

SECTION 14: Transport information

14.1 UN Number None
14.2 UN Proper Shipping Name None
14.3 Transport hazard class(es) None
14.4 Packing group None
14.5 Environmental hazards None
14.6 Special precautions for user None
14.7 Transport in bulk according to Annex II of None
MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

Attention all Retailers of Mason Stains

ALL retailers of this product are REQUIRED by law to supply their customers with a copy of material safety data sheet with initial purchase.

***SARA 313

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CRF, Part 372.

The information contained in this SDS must be provided to every employee who is exposed to this product in any way. We recommend the user reads and understands the contents herein before using this material

PLEASE KEEP ON FILE FOR FUTURE REFERENCE. DO NOT THROW AWAY! SDS'S ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.

Disclamer

SECTION 16: REFERENCE INFORMATION

CPMA CLASSIFICATION AND CHEMICAL DESCRIPTIONS OF THE COMPLEX INORGANIC COLOR PIGMENTS Fourth Edition - January 2013 Update

https://www.osha.gov/index.html

http://chem.sis.nlm.nih.gov/chemidplus

13th Report on Carcinogens on October 2, 2014. http://monographs.iarc.fr/ENG/Classification/index.php