Safety Data Sheet DATE PREPARED 4/28/2015

UPDATED 6/15/2016

6657 IRON COBALT CHROMITE BLACK SPINEL

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See Section 8





MANUFACTURERS OF CERAMIC COLORS

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	6657 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)	Not a hazardous substance		
H303: May be harmful if swallowed	P261: Avoid breathing dust.		
H313: May be harmful in contact with skin	P262: Do not get in eyes, on skin.		
H317: May cause an allergic skin reaction	P264: Wash hands thoroughly after handling.		
H333: May be harmful if inhaled			
H335: May cause respiratory		•	

SECTION 3: Composition/information on ingredients

IRON COBALT CHRC	OMITE 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		
4: First-aid measur	es		
ith 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.		sheet.	
	A suspension of activated	charcoal in water, or liquid paraffin may be admi	inistered.
•Inhalation: Ventilate the prem			
	The patient is to be remove	ed immediately from the contaminated premises	s and made to rest in a well ventilated area.
	Should the patient feel unv	well, OBTAIN MEDICAL ATTENTION	
1	EC no. CAS no. Index no. Formula 4: First-aid measur ith skin: ith eyes: Ig:	CAS no. 68186-97-0 Index no. C.I. 77502 Formula (Co,Fe)(Fe,Cr)2O4 4: First-aid measures ith skin: Wash with plenty of water ith eyes: Wash immediately with w sg: SEEK A MEDICAL EXAMIN/ A suspension of activated n: Ventilate the premises. The patient is to be remov	EC no. 269-060-5 CAS no. 68186-97-0 Index no. C.I. 77502 Formula (Co,Fe)(Fe,Cr)2O4 4: First-aid measures

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: Environmental measures: . Cleaning methods: SECTION 7: Handling and storage	Use gloves and protective clothing. In the event of particulates aerosols use respiratory protection. Keep away from drains, surface- and ground-water and soil 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.
•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.

•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

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Chromium (III) Compounds (as Cr)	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³
Iron Oxide Fume	5 mg/m ³	10 mg/m ³	5 mg/m ³
Cobalt, Metal, Dust & Fume (as Co)	0.02 mg/m ³	0.5 mg/m ³	N/A
		5 mg/m ³ (respirable)	
Nickel, Metal (as Ni)	0.2 mg/m ³	1 mg/m ³	0.015 mg/m ³

Precautionary measures: Respiratory protection:	Give adequate ventilation to the premises where the product is stored and/or handled. Use suitable respiratory protection.
 Protection for hands: Eye protection: Protection for skin: 	Not needed for normal use. Not needed for normal use. 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 product	Contain spillage and scoop or vacuum. Avoid making dust put in appropriate container for disposal. Waste disposal method in accordance with 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