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# HASTINGS PLASTICS COMPANY

PRODUCT DATA  
MSDS HACOL 16-2-1  
\*REVISED 09/04/03  
REPLACED 03/09/98

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

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## HACOL 16-2-1 STATUARY BRONZE

### SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME	- CRESCENT BRONZE POWDER CO., INC.
EMERGENCY PHONE NUMBER	- (800) 424-9300 (CHEMTREC)
CHEMICAL FAMILY/NAME	- Gold flake
TRADE NAME	- HACOL 16-2-1 Statuary Bronze
NFPA RATING: N/D	
HMS HAZARD RATINGS: Health - 1 / Reactivity	- 3 / Flammability - 4

### SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>TLV-TWA</u>	<u>TLV-STEL</u>
COPPER	7440-50-8	70 - 95	1 MG/M3	N/A
ZINC	7440-66-6	5 - 30	10 MG/M3	N/A
ALUMINUM	7429-90-5	.2 - 1.7	10 MG/M3	N/A
STEARIC ACID	97701-3-5	<2	N/A	N/A

### SECTION III - PHYSICAL DATA

APPEARANCE, COLOR & ODOR - Gold color, odorless

	<u>Cu</u>	<u>Zn</u>	<u>Al</u>
BOILING POINT (Deg F)	4653	1665	4766
(Deg C):	(2567)	(907)	(2630)
VAPOR PRESSURE @ 20 Deg C:	1 mm Hg	1 mm Hg	1 mm Hg
VAPOR DENSITY (Air = 1):	N/A	N/A	N/A
SPECIFIC GRAVITY (Air = 1):	8.92	7.14	2.7
SOLUBILITY IN WATER:	INSOLUBLE	INSOLUBLE	INSOLUBLE
PERCENT VOLATILE:	N/A	N/A	N/A
EVAPORATION RATE:	N/A	N/A	N/A
MOLECULAR WEIGHT:	63.5	65.37	26.98

### SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT (PMCC): N/A

	<u>Cu</u>	<u>Zn</u>	<u>Al</u>
LIMITS: LEL %:	N/A	.5 oz/ft3	.035 oz/ft3
UEL %:	N/A	N/A	N/A

EXTINGUISHING MEDIA: Never employ water as an extinguishing agent on an aluminium fire. Water and aluminum when combined, form hydrogen gas which can rapidly spread the fire. Do not use high velocity dry chemical agents because they may disturb the burning powder to create a dangerous, potentially, dust cloud. Sand or another inert material should be used to ring or dike the fire while allowing burning contents to extinguish itself.

**D.O.T. FLAMMABILITY CLASSIFICATION: ALUMINUM POWDER, COATED, UN1309, CLASS 4.1, PG11**

### **SECTION V - HEALTH HAZARD INFORMATION**

**TARGET ORGANS:**

Respiratory system, nasal septum, skin, eyes, gastrointestinal, kidneys, liver, cardiovascular system.

**PRIMARY ENTRY ROUTE(S):**

Inhalation, ingestion, skin, or eye contact.

**HEALTH EFFECTS:**

Copper dusts and mists are eye and mucous membrane irritants, primary skin irritants and skin sensitizers. Acute exposure may cause metallic taste and nasal ulceration and perforation. Prolonged skin contact produces sensitization dermatitis. Exposure results in irritation and metal-fume fever, metallic taste, and discoloration of the skin and hair. Ingestion of copper compounds causes vomiting and collapse. Acute poisoning is characterized by hemolysis, jaundice, anuria, hypotension, and convulsions.

If exposed to excessively high temperatures, zinc metal fumes cause metal fume fever.

Aluminum metallic powder is an eye and mucous membrane irritant.

**FIRST AID:**

**EYE CONTACT:** If this chemical gets into the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this chemical.

**SKIN CONTACT:** Flush contaminated skin with water. Get medical attention if irritation occurs.

**INHALATION:** If a person breathes in large amounts of this chemical, move the exposed person to fresh air at once. If breathing has stopped perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.

**INGESTION:** Emergency treatment - dilute with water or milk. Remove by gastric lavage (i.e. stomach tube) unless patient is vomiting. Get medical attention as soon as possible.

### **SECTION VII - PERSONAL PROTECTION INFORMATION**

**EYE PROTECTION:** Wear safety glasses or chemical goggles to prevent eye contact. Do not wear contact lenses when working with this substance. Have eye washes readily available where eye contact can occur.

**SKIN PROTECTION:** Wear impervious gloves and protective clothing to prevent skin contact. Use good personal hygiene. Wear regularly cleaned work clothing. Showering and changing into street clothing after work is desirable.

**RESPIRATORY PROTECTION:** Ventilation may be used to control or reduce airborne concentrations. NIOSH/MSHA approved breathing equipment may be required for non-routine and emergency use

**OTHER PROTECTIVE EQUIPMENT:** To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

WORKPLACE CONSIDERATIONS: Eye-wash fountain

VENTILATION: Sufficient ventilation, in both volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limits.

### **SECTION VIII - REACTIVITY DATA**

STABILITY/INCOMPATIBILITY: Stable

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

CHEMICAL INCOMPATIBILITIES: Strong alkalis, chlorates, bromates, amines, mineral acids, ammonium salts, potassium nitrate, selenium, sodium peroxide, sulfur, tellurium, carbon disulfide, chlorine, chlorine trifluoride, chromic anhydride, fluorine, magnesium, iodates, chlorinated hydrocarbons, oxides, nitrites, chlorides, palladium, manganese, magnesium plus potassium chlorate, sodium carbonate, sulfates, diborane.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition may yield hydrogen and noxious copper and zinc compounds.

### **SECTION IX - ENVIRONMENTAL INFORMATION**

SPILL OR RELEASE TO THE ENVIRONMENT:

Never employ water, have sand pails available. Sweep spill gently to avoid dust cloud formation, use non-sparking non-static generation implements.

WASTE DISPOSAL METHOD (Large or Small Spills): Dispose of in compliance with all applicable Federal, State, and Local regulations.

### **SECTION X - SPECIAL PRECAUTIONS**

Special handling/storage: Protect against water. Store in a cool, dry place away from incompatible chemicals and possible sources of ignition.

OTHER PRECAUTIONS: N/A

### **SECTION XI - SECTION 313 SUPPLIER NOTIFICATION**

This product contain the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
7440-50-8	COPPER	70 - 90
7440-66-6	ZINC	6 - 25
7429-50-9	ALUMINUM	2 - 6

**DISCLAIMER OF LIABILITY**

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Prepared By: Joe Morales

F#170-21A

# HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA  
MSDS HACOL 16-2-2  
\*REVISED 09/04/03  
REPLACED 03/10/98

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## HACOL 16-2-2 EXTRA BRILLIANT ALUMINUM

### SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - CRESCENT BRONZE POWDER CO., INC.  
EMERGENCY PHONE NUMBER - (800) 424-9300 (CHEMTREC)  
CHEMICAL FAMILY/NAME - Aluminum Flake  
TRADE NAME - HACOL 16-2-2 Extra Brilliant Aluminum  
NFPA RATING: N/D  
HMIS HAZARD RATINGS: Health - 1 / Reactivity - 3 / Flammability - 3

### SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>TLV-TWA</u>	<u>TLV-STEL</u>
ALUMINUM	7429-90-5	>97%	10 MG/M3	N/A
STEARIC ACID	67701-3-5	<3%	N/A	N/A

### SECTION III - PHYSICAL DATA

APPEARANCE, COLOR & ODOR - Silvery-white and hydrocarbon odor  
BOILING POINT - 4766 Deg F (2630 C)  
VAPOR PRESSURE - 1 mm Hg @ 68.00 Deg F  
VAPOR DENSITY (Air = 1) - N/A  
SPECIFIC GRAVITY - 2.7  
SOLUBILITY IN WATER - INSOLUBLE  
PERCENT VOLATILE - N/A  
EVAPORATION RATE - N/A  
MOLECULAR WEIGHT - 26.98

### SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT (PMCC) - N/A  
AUTOIGNITION TEMPERATURE - CLOUD=1202 Deg F LAYER=1094 Deg F  
LIMITS - LEL %: .035/ft3 UEL %: N/A  
EXTINGUISHING MEDIA: Dry sand, dry inert granular material or approved dry powder extinguishing agent.  
HAZARDOUS DECOMPOSITION PRODUCTS: Aluminum reacts with water, acids, and alkalis to form combustible hydrogen gas. **DOT Classification: Aluminum Powder, Coated, UN1309, Class 4.1, PG II**

### SECTION V - HEALTH HAZARD INFORMATION

TARGET ORGANS: Eyes, skin, lungs, mucous membranes.

PRIMARY ENTRY ROUTE(S): Inhalation, skin, or eye contact.

**FIRST AID:**

**EYE CONTACT:** If this chemical gets into the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this chemical.

**SKIN CONTACT:** Flush contaminated skin with water. Get medical attention if irritation occurs.

**INHALATION:** If a person breathes in large amounts of this chemical, move the exposed person to fresh air at once. If breathing has stopped perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.

**HEALTH EFFECTS:** Aluminum, metallic, powder is an eye and mucous membrane irritant.

**SECTION VI - PERSONAL PROTECTION INFORMATION****EYE PROTECTION:**

Wear safety glasses or chemical goggles to prevent eye contact. Do not wear contact lenses when working with this substance. Have eye washes readily available where eye contact can occur.

**SKIN PROTECTION:**

Wear impervious gloves and protective clothing to prevent skin contact. Use good personal hygiene. Wear regularly cleaned work clothing. Showering and changing into street clothing after work is desirable.

**RESPIRATORY PROTECTION:**

Ventilation may be used to control or reduce airborne concentrations. NIOSH/MSHA approved breathing equipment may be required for non-routine and emergency use.

**OTHER PROTECTIVE EQUIPMENT:**

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**WORKPLACE CONSIDERATIONS:** Eye-wash fountain

**VENTILATION:** Sufficient ventilation, in both volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limits.

**SECTION VII - REACTIVITY DATA**

**STABILITY/INCOMPATIBILITY:** Stable

**HAZARDOUS POLYMERIZATION:** CANNOT OCCUR

**CHEMICAL INCOMPATIBILITIES:** Acids, strong alkalies, strong bases, strong oxidizers, silver chloride, iodates, chlorinated hydrocarbons, oxides, nitrites, carbondisulfide, chlorides, sodium peroxide plus carbon dioxide, sulfur dichloride, palladium, manganese, magnesium plus potassium chlorate, sodium carbonate, sulfates, diborane.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Aluminum reacts with water, acids, and alkalies to form combustible hydrogen gas.

**SECTION VIII - ENVIRONMENTAL INFORMATION****SPILL OR RELEASE TO THE ENVIRONMENT:**

Never employ water, have sand pails available. Sweep spill gently to avoid dust cloud formation, use non-sparking non-static generation implements.

**WASTE DISPOSAL METHOD (Large or Small Spills):**

Dispose of in compliance with all applicable Federal, State, and Local regulations.

**SECTION IX - SPECIAL PRECAUTIONS**

Special handling/storage: Protect against water. Store in a cool, dry place away from incompatible chemicals and possible sources of ignition.

OTHER PRECAUTIONS: N/A

**SECTION X - SECTION 313 SUPPLIER NOTIFICATION**

This product contain the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
7429-50-9	ALUMINUM	>97%

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Prepared By: Joe Morales

F#170-21A

# HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA  
MSDS HACOL 16-2A-1  
\*REVISED 3/10/98  
REPLACED 3/18/91

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## HACOL 16-2A-1 BLACK

### SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - COLUMBIAN CHEMICALS COMPANY  
1600 Parkwood Circle Suite 400  
Atlanta, Georgia 30339

EMERGENCY PHONE NUMBER - (800) 424-9300 (CHEMTREC)

CHEMICAL FAMILY - Iron Oxide FeO-Fe<sub>2</sub>O<sub>3</sub>

CHEMICAL NAME - Synthetic Iron Oxide

TRADE NAME - HACOL 16-2A-1 Black Powder Pigment

### SECTION II - HAZARDOUS INGREDIENTS

COMPONENT	%	EXPOSURE CRITERION
IRON OXIDE	99	PEL/TLV 10 mg/m <sup>3</sup>

### SECTION III - PHYSICAL DATA

APPEARANCE & COLOR - Black, dry powder

ODOR - None

BOILING POINT - N/A

MELTING POINT - N/A

SPECIFIC GRAVITY - 4.95

VAPOR PRESSURE - N/A

VAPOR DENSITY - N/A

SOLUBILITY IN WATER - Negligible

EVAPORATION RATE  
(Butyl Acetate=1) - N/A

STRONG OXIDIZER - Yes

REACTS IF EXPOSED TO: Light: NO Air: NO Water: NO

### SECTION IV - HAZARDOUS REACTIVITY

INSTABILITY - Stable

INCOMPARABILITY - Excessive heat (above 130<sup>0</sup>F) and strong oxidizers

DECOMPOSITION - None

POLYMERIZATION - Will not occur.

### SECTION V - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT - N/A

METHOD - N/A

AUTOIGNITION TEMP - N/A

FLAMMABILITY LIMITS IN AIR (%BY VOL.) LOWER: N/A UPPER: N/A

**FIRE AND EXPLOSION HAZARDS:** Exposure to temperatures greater than 130°F may cause this product to become unstable and auto-oxidize generating sufficient heat to cause combustibles, including the product container, to ignite. If required or necessary, the product may be quenched with water to stop the reaction. The oxidized material will be a light brown ferric oxide (Fe<sub>2</sub>O<sub>3</sub>). The product should be stored away from combustibles and flammable liquids.

**EXTINGUISHING MEDIA:** Water Spray

**SPECIAL FIREFIGHTING PROCEDURES:** Normal fog or nozzle jet application and/or exclusion of air.

## **SECTION VI - HEALTH HAZARD INFORMATION**

### **EXPOSURE LIMITS:**

**ACUTE:** Dust concentrations above the permissible exposure limit may cause temporary upper respiratory tract discomfort.

**CHRONIC:** None

### **ROUTES OF ENTRY:**

**INHALATION:** For inhalation discomfort, remove to fresh air.

**EYES:** Flush eyes with plenty of water, occasionally lifting the lower and upper lids.

**SKIN:** Wash skin with water and mild soap or waterless hand cleaner to remove iron oxide dust.

**INGESTION:** Entry by mouth is not likely to produce adverse effects.

## **SECTION VII - PERSONAL PROTECTION INFORMATION**

**EYE PROTECTION:** Sideshield Safety Glasses

**SKIN PROTECTION:** None Required

**RESPIRATORY PROTECTION:** Approved dust mask above TLV/PEL.

**OTHER:** Practice good hygiene, wash hands and face before eating or smoking. Launder clothing before reuse.

**VENTILATION:** Use with adequate ventilation and dust containment to reduce dust concentrations to permissible exposure limits. See OSHA standard 29 CFR 1910.1025.

## **SECTION VIII - ENVIRONMENTAL INFORMATION**

**AQUATIC TOXICITY:** Not Available

### **SPILL OR RELEASE TO THE ENVIRONMENT:**

Scoop and vacuum up, place in a closed container for disposal. Avoid dusting. Comply with Federal and Local Regulations. Dispose of in permitted chemical landfill as RCRA Waste.

### **WASTE DISPOSAL PRECAUTIONS:**

Bury in accordance with Local, State and Federal regulations. Iron Oxide is not a hazardous waste. Material in the process of auto-oxidation should be disposed of in a landfill until the reaction is complete and ambient temperature is reached.

**SECTION IX - REGULATORY INFORMATION**

RCRA: Unused iron oxide is not a hazardous waste if disposal is required.

CERCLA: Iron oxide is not a CERCLA hazardous substance. Spills of iron oxide are not reportable

TSCA: Iron oxide is listed on the TSCA Inventory.

TITLE III of SARA: Iron oxide is not a listed "extremely hazardous substance" (Section 304) or a listed "toxic chemical" (Section 313)

**SECTION X - TRANSPORTATION REQUIREMENTS**

D.O.T. HAZARD CLASS	- Not regulated
D.O.T. PROPER SHIPPING NAME	- N/A
D.O.T. LABELS REQUIRED	- N/A
D.O.T. PLACARDS REQUIRED	- N/A
BILL OF LADING DESCRIPTION	- N/A
UN/NA CODE	- N/A

STORAGE CONDITIONS: Protect containers from breakage. Clean-up all spills immediately. Store in a clean dry area. Keep away from food product. Do not store at temperatures above 130°F. Do not store with flammable materials.

**DISCLAIMER OF LIABILITY**

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Prepared By: Joe Morales

F#170-21A

# HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA  
MSDS HACOL 16-2A-3  
\*REVISED 3/11/98  
REPLACED 3/18/93

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## HACOL 16-2A-3 ORANGE

### SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - COOKSON PIGMENTS INC.  
256 Vanderpool Street  
Newark, NJ 07114

EMERGENCY PHONE NUMBER - (800) 424-9300 (CHEMTREC)

CHEMICAL FAMILY - Lead Chromate

CHEMICAL NAME - Silica Encapsulated Lead C.I. Pigm. Red 104

TRADE NAME - HACOL 16-2A-3 Orange Powder Pigment

GRADE - KO-789-D

HMIS HAZARD RATINGS: Health - 1 / Reactivity - 0 / Flammability - 0

### SECTION II - HAZARDOUS INGREDIENTS

Material(s): Lead & Chromium Approximate %:  
(See Section III for Typical Analysis)

AMORPHOUS SILICA 13 - 21

### SECTION III - PHYSICAL PROPERTIES

"KROLOR" ORANGE R	% LEAD	% CHROMIUM	SPECIFIC GRAVITY	ph
"KROLOR" ORANGE Y	(As Pb)	(As Cr)	gm/CC	WATER EXTRACT
KO-786-D	43	10	4.43	4.5 - 7.0
KO-789-D	45	9	4.06	5.5 - 7.5
KO-906-D	40	8	3.07	5.0 - 5.6
KO-909-D	41	9	2.93	6.5 - 8.5

### SECTION IV - PHYSICAL DATA

APPEARANCE & COLOR - Orange Powder

ODOR - None

BOILING POINT - 760 mm Hg

MELTING POINT - N/A

SPECIFIC GRAVITY - See section III

VAPOR PRESSURE - N/A

VAPOR DENSITY - N/A

SOLUBILITY IN WATER - Insoluble

% VOLATILE BY WT. - Less than 2

EVAPORTION RATE

(Butyl Acetate=1) - N/A

pH INFORMATION - See Section III

## OCTANOL\WATER PARTITION

COEFFICIENT - N/A

**SECTION V - FIRE AND HAZARD EXPLOSION DATA**

FLASH POINT - N/A

METHOD - N/A

AUTOIGNITION TEMP - N/A

FLAMMABILITY LIMITS IN AIR (%BY VOL.)LOWER: N/A UPPER: N/A

FIRE AND EXPLOSION HAZARDS: Oxidizer, may ignite in the presence of heat and combustible materials.

EXTINGUISHING MEDIA: Carbon Dioxide on pigment, water on fire in surrounding area.

SPECIAL FIREFIGHTING PROCEDURES: CO<sub>2</sub> or water extinguishers maybe used.**SECTION VI - HEALTH HAZARD INFORMATION**

## EXPOSURE LIMITS:

OSHA 8-hour Time Weighted Average (TWA) is 0.05 mg/m<sup>3</sup> (as Pb).ACGIH TWA is 0.05 mg/m<sup>3</sup> (as Cr); ACGIH Paragraph A2, Carcinogen (for PbCrO<sub>4</sub>).

Significant Routes and Effects of Exposure: Repeated and prolonged exposure may cause delayed effects involving the blood, gastrointestinal, nervous and reproductive systems.

Non-silica encapsulated lead chromate is currently listed as suspect carcinogen, therefore this information is included, even though recent toxicity data indicates lead chromate pigments:

- \* Are non-carcinogenic, or at least show extremely low carcinogenic potential based on studies from lung implantation experiments on rats.
- \* Do not show an increased in lung cancer rate from epidemiological studies in factories which produce only lead chromate pigments.

**HEALTH HAZARD INFORMATION - FOR SILICA ENCAPSULATED PRODUCTS:**

Silica encapsulation encases the base pigment with a continuous, dense, amorphous coating of "glass". This composition creates a new class of lead chromate based pigments which provides a barrier between the core pigment and the workplace and environment. The effectiveness of the silica coating is readily demonstrated by the fact that extractable lead and chromium is significantly less than that extracted from non-encapsulated lead chromate pigments. This unique composition also modifies the toxicological properties of the base pigment, demonstrated by the fact that such compositions do not show mutagenic substances. The Chemical Abstract Registry Services recognized the unique composition of silica encapsulated lead chromate based pigments by assigning a Chemical Abstract Service Registry Number (CAS Registry Number) to these compositions.

**SAFETY PRECAUTIONS: FOR INDUSTRIAL USE ONLY**

- \* Harmful if swallowed
- \* Use adequate Personal Protection Equipment to avoid breathing respirable dust.
- \* Wash thoroughly after handling.
- \* Keep containers tightly closed.

**SECTION 313 SUPPLIER NOTIFICATION**

Notification that products listed below contain chemicals subject to reporting requirements of SARA Title III, Section 313, and of 40 CFR 372

CHEMICAL CATEGORY\* AND WEIGHT%

	% LEAD (CAS # 7439-92-1)	% CHROMIUM (CAS # 7440-47-3)	% ANTIMONY (CAS #7440-36-0)	% ALUMINUM (CAS #1344-28-1)
KO-786-D	43	10	2	1
KO-789-D	45	9	1	2
KO-906-D	40	8	2	1
KO-909-D	41	9	1	2

CALIFORNIA PROPOSITION 65 STATEMENT\*\*

**WARNING:**This product contains a chemical known to the state of California to cause cancer. Product contains Hexavalent Chromium.

**WARNING:**This Product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Product contains Lead.

\*\*This statement and exact wording is included as required by the State of California. The conclusion that all Chromium (VI) and lead compounds have the same toxicological properties is not supported by current toxicological data for lead chromate based pigments.

\*Metal content or chemical is weight percent contained in the product. CAS number for the parent metal is indicated.

NEW JERSEY RIGHT-TO-KNOW INGREDIENT INFORMATION

Ingredients listed below are the most predominant ingredients in the product. If 5 ingredients are not listed, then the product does not contain 5 ingredients in amounts greater than 1%.

KO-786-D, KO-789-D

Silica Encapsulated C.I. Pigment Red 104 - CAS #116565-73-2  
(Contains Lead Chromate CAS #7758-97-6)  
Amorphous Silica CAS #7631-86-9

KO-906-D, KO-909-D

Silica Encapsulated C.I. Pigment Red 104 - CAS #116565-73-2  
(Contains Lead Chromate CAS #7758-97-6)  
Amorphous Silica CAS #7631-86-9  
Trade Secret #594235-00-1-5021-P, #593235-00-1-5022-P

SECTION VII - EMERGENCY & FIRST AID PROCEDURES

**INGESTION:** When conscious, give fluids. Call a Physician

**SKIN CONTACT:** Remove contaminated clothing. Wash with soap and water. Launder contaminated clothing before reuse.

**EYE CONTACT:** Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

**INHALATION:** Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Keep affected person warm and at rest. Get immediate medical attention.

**SECTION VIII - PERSONAL PROTECTION INFORMATION**

EYE PROTECTION: Sideshield Safety Glasses

SKIN PROTECTION: Leather gloves or other non-permeable gloves

RESPIRATORY PROTECTION: Use NIOSH approved air purifying respirator with HEPA Dust Cartridges for concentrations below 0.05 mg/m<sup>3</sup> as Pb. For concentrations above 0.05 mg/m<sup>3</sup> as Pb, use full face respirator or air supplied respirator. See OSHA standard 29 CFR 1910.1025.

OTHER: Practice good hygiene, wash hands and face before eating or smoking. Launder clothing before reuse.

VENTILATION: Use only with adequate ventilation and dust containment to reduce dust concentrations to permissible exposure limits. See OSHA standard 29 CFR 1910.1025.

**SECTION IX - ENVIRONMENTAL INFORMATION**

AQUATIC TOXICITY: Not Available

**SPILL OR RELEASE TO THE ENVIRONMENT:**

Scoop and vacuum up, place in a closed container for disposal. Avoid dusting. Comply with Federal and Local Regulations. Dispose of in permitted chemical landfill as RCRA Waste.

**SECTION X - TRANSPORTATION REQUIREMENTS**

D.O.T. HAZARD CLASS	- Not regulated
D.O.T. PROPER SHIPPING NAME	- N/A
D.O.T. LABELS REQUIRED	- N/A
D.O.T. PLACARDS REQUIRED	- N/A
BILL OF LADING DESCRIPTION	- N/A
UN/NA CODE	- N/A

STORAGE CONDITIONS: Protect containers from breakage. Clean-up all spills immediately. Store in a clean dry area. Keep away from food product.

**DISCLAIMER OF LIABILITY**

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Prepared By: Joe Morales

F#170-21A

# HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA  
MSDS HACOL 16-2A-4  
\*REVISED 3/11/98  
REPLACED 03/18/93

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## HACOL 16-2A-4 YELLOW

### SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - COOKSON PIGMENTS INC.  
256 Vanderpool Street  
Newark, NJ 07114

EMERGENCY PHONE NUMBER - (800) 424-9300 (CHEMTREC)

CHEMICAL FAMILY - Lead Chromate

CHEMICAL NAME - Silica Encapsulated Lead C.I. Pigm. Red 104

TRADE NAME - HACOL 16-2A-4 Yellow Powder Pigment

GRADE - KY-795-D

HMIS HAZARD RATINGS: Health - 1 / Reactivity - 0 / Flammability - 0

### SECTION II - HAZARDOUS INGREDIENTS

Material(s): Lead & Chromium                      Approximate %:  
(See Section III for Typical Analysis)

AMORPHOUS SILICA                                      10 - 20

### SECTION III - PHYSICAL PROPERTIES

	% LEAD	% CHROMIUM	SPECIFIC GRAVITY	ph
"KROLOR" YELLOWS	(As Pb)	(As Cr)	gm/CC	WATER EXTRACT
KY-781-D	47	8	3.95	4.0 - 5.5
KY-787-D	42	10	3.20	8.0 - 10.5
KY-788-D	44	8	3.37	8.0 - 9.5
KY-790-D	43	7	3.71	4.0 - 6.0
KY-795-D	46	11	3.86	4.5 - 6.5
KY-907-D	40	10	3.00	5.5 - 7.5
KY-908-D	44	8	3.09	4.0 - 6.5
KY-995-D	46	11	3.86	4.5 - 6.5

### SECTION IV - PHYSICAL DATA

APPEARANCE & COLOR - Yellow Powder

ODOR - None

BOILING POINT - 760 mm Hg

MELTING POINT - N/A

SPECIFIC GRAVITY - See section III

VAPOR PRESSURE - N/A

VAPOR DENSITY - N/A

SOLUBILITY IN WATER - Insoluble

% VOLATILE BY WT.	-	Less than 2
EVAPORATION RATE (Butyl Acetate=1)	-	N/A
pH INFORMATION	-	See Section III
OCTANOL/WATER PARTITION COEFFICIENT	-	N/A

**SECTION V - HAZARDOUS REACTIVITY**

INSTABILITY	-	Stable
INCOMPATIBILITY	-	May ignite in the presence of heat and combustible materials.
DECOMPOSITION	-	Lead and Chromium oxides form when burned.
POLYMERIZATION	-	Will not occur.

**SECTION V - FIRE AND HAZARD EXPLOSION DATA**

FLASH POINT	-	N/A
METHOD	-	N/A
AUTOIGNITION TEMP	-	N/A
FLAMMABILITY LIMITS IN AIR (%BY VOL.)	LOWER: N/A	UPPER: N/A
FIRE AND EXPLOSION HAZARDS:	Oxidizer, may ignite in the presence of heat and combustible materials.	

EXTINGUISHING MEDIA: Carbon Dioxide on pigment, water on fire in surrounding area.

SPECIAL FIREFIGHTING PROCEDURES: CO<sub>2</sub> or water extinguishers maybe used.

**SECTION VI - HEALTH HAZARD INFORMATION****EXPOSURE LIMITS:**

OSHA 8-hour Time Weighted Average (TWA) is 0.05 mg/m<sup>3</sup> (as Pb).

ACGIH TWA is 0.05 mg/m<sup>3</sup> (as Cr); ACGIH Paragraph A2, Carcinogen (for PbCrO<sub>4</sub>).

Significant Routes and Effects of Exposure: Repeated and prolonged exposure may cause delayed effects involving the blood, gastrointestinal, nervous and reproductive systems.

Non-silica encapsulated lead chromate is currently listed as suspect carcinogen, therefore this information is included, even though recent toxicity data indicates lead chromate pigments:

- \* Are non-carcinogenic, or at least show extremely low carcinogenic potential based on studies from lung implantation experiments on rats.
- \* Do not show an increased in lung cancer rate from epidemiological studies in factories which produce only lead chromate pigments.

**HEALTH HAZARD INFORMATION - FOR SILICA ENCAPSULATED PRODUCTS:**

Silica encapsulation encases the base pigment with a continuous, dense, amorphous coating of "glass". This composition creates a new class of lead chromate based pigments which provides a barrier between the core pigment and the workplace and environment. The effectiveness of the silica coating is readily demonstrated by the fact that extractable lead and chromium is significantly less than that extracted from non-encapsulated lead chromate pigments.

This unique composition also modifies the toxicological properties of the base pigment, demonstrated by the fact that such compositions do not show mutagenic substances. The Chemical Abstract Registry Services recognized the unique composition of silica encapsulated lead chromate based pigments by assigning a Chemical Abstract Service Registry Number (CAS Registry Number) to these compositions.

## SAFETY PRECAUTIONS: FOR INDUSTRIAL USE ONLY

- \* Harmful if swallowed
- \* Use adequate Personal Protection Equipment to avoid breathing respirable dust.
- \* Wash thoroughly after handling.
- \* Keep containers tightly closed.

**SECTION 313 SUPPLIER NOTIFICATION**

Notification that products listed below contain chemicals subject to reporting requirements of SARA Title III, Section 313, and of 40 CFR 372

CHEMICAL CATEGORY\* AND WEIGHT%

	% LEAD (CAS # 7439-92-1)	% CHROMIUM (CAS # 7440-47-3)	% ANTIMONY (CAS #7440-36-0)	% ALUMINUM (CAS #1344-28-1)
KY-781-D	47	8	1	2
KY-787-D	42	10	1	1
KY-788-D	44	8	1	2
KY-790-D	43	7	1	1
KY-795-D	46	11	1	1
KY-907-D	40	10	1	1
KY-908-D	40	8	1	2
KY-995-D	46	11	1	1

CALIFORNIA PROPOSITION 65 STATEMENT\*\*

**WARNING:** This product contains a chemical known to the state of California to cause cancer. Product contains Hexavalent Chromium.

**WARNING:** This Product contains a chemical cknown to the State of California to cause birth defects or other reproductive harm. Product contains Lead.

\*\*This statement and exact wording is included as required by the State of California. The conclusion that all Chromium (VI) and lead compounds have the same toxicological properties is not supported by current toxicological data for lead chromate based pigments.

\*Metal content or chemical is weight percent contained in the product. CAS number for the parent metal is indicated.

**NEW JERSEY RIGHT-TO-KNOW INGREDIENT INFORMATION**

Ingredintents listed below are the most predominant ingreients in the produc. If 5 ingredients are not listed, then the product does not contain 5 ingredients in amounts greater than 1%.

**KY-781-D, KY-790-D, KY-795-D, KY-995-D**

Silica Encapsulated C.I. Pigment Yellow 34 - CAS #116565-74-3

(Contains Lead Chromate CAS #7758-97-6)

Amorphous Silica CAS #7631-86-9

**KY-787-D, KY-788-D**

Silica Encapsulated C.I. Pigment Yellow 34 - CAS #116565-74-3

(Contains Lead Chromate CAS #7758-97-6)

Calcium Rosinate CAS #9007-13-0

Amorphous Silica CAS #7631-86-9

**KY-907-D, KY-908-D**

Silica Encapsulated C.I. Pigment Yellow 34 - CAS #116565-74-3

(Contains Lead Chromate CAS #7758-97-6)

Amorphous Silica CAS #7631-86-9

Trade Secret #594235-00-1-5021-P, #594235-00-1-5022-P

**SECTION VII - EMERGENCY & FIRST AID PROCEDURES**

**INGESTION:** When conscious, give fluids. Call a Physician

**SKIN CONTACT:** Remove contaminated clothing. Wash with soap and water. Launder contaminated clothing before reuse.

**EYE CONTACT:** Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

**INHALATION:** Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Keep affected person warm and at rest. Get immediate medical attention.

**SECTION VIII - PERSONAL PROTECTION INFORMATION**

**EYE PROTECTION:** Sideshield Safety Glasses

**SKIN PROTECTION:** Leather gloves or other non-permeable gloves

**RESPIRATORY PROTECTION:** Use NIOSH approved air purifying respirator with HEPA Dust Cartridges for concentrations below 0.05 mg/m<sup>3</sup> as Pb. For concentrations above 0.05 mg/m<sup>3</sup> as Pb, use full face respirator or air supplied respirator. See OSHA standard 29 CFR 1910.1025.

**OTHER:** Practice good hygiene, wash hands and face before eating or smoking. Launder clothing before reuse.

**VENTILATION:** Use only with adequate ventilation and dust containment to reduce dust concentrations to permissible exposure limits. See OSHA standard 29 CFR 1910.1025.

**SECTION IX - ENVIRONMENTAL INFORMATION**

**AQUATIC TOXICITY:** Not Available

**SPILL OR RELEASE TO THE ENVIRONMENT:**

Scoop and vacuum up, place in a closed container for disposal. Avoid dusting. Comply with Federal and Local Regulations. Dispose of in permitted chemical landfill as RCRA Waste.

**SECTION X - TRANSPORTATION REQUIREMENTS**

D.O.T. HAZARD CLASS - Not regulated

D.O.T. PROPER SHIPPING NAME - N/A

D.O.T. LABELS REQUIRED	- N/A
D.O.T. PLACARDS REQUIRED	- N/A
BILL OF LADING DESCRIPTION	- N/A
UN/NA CODE	- N/A

STORAGE CONDITIONS: Protect containers from breakage. Clean-up all spills immediately. Store in a clean dry area. Keep away from food product.

**DISCLAIMER OF LIABILITY**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

Prepared By: Joe Morales

F#170-21A

# HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA  
MSDS HACOL 16-2A-6  
\*REVISED 3/12/98  
REPLACED 3/18/93

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## HACOL 16-2A-6 RED

### SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME	- COOKSON PIGMENTS INC. 256 Vanderpool Street Newark, NJ 07114
EMERGENCY PHONE NUMBER	- (800) 424-9300 (CHEMTREC)
CHEMICAL FAMILY	- Lead Chromate
CHEMICAL NAME	- Silica Encapsulated Lead C.I. Pigm. Red 104
TRADE NAME	- HACOL 16-2A-3 Red Powder Pigment
GRADES	- KR-980-D
HMIS HAZARD RATINGS: Health - 1 / Reactivity - 0 / Flammability - 0	

### SECTION II - HAZARDOUS INGREDIENTS

Material(s):	Approximate %:
LEAD	40.6 - 42.4 (KR-980-D), 32.2 - 33.5 (KR-981-D)
CHROMIUM	10.1 (KR-980-D), 7.3 - 7.9 (KR-981-D)
AMORPHOUS SILICA	LESS THAN 15

### SECTION IV - PHYSICAL DATA

APPEARANCE & COLOR	- Red Powder
ODOR	- None
BOILING POINT	- 760 mm Hg
MELTING POINT	- N/A
SPECIFIC GRAVITY	- KR-980-D 3.61 / KR-981-D 2.69
VAPOR PRESSURE	- N/A
VAPOR DENSITY	- N/A
SOLUBILITY IN WATER	- Insoluble
% VOLATILE BY WT.	- Less than 2
EVAPORATION RATE (Butyl Acetate=1)	- N/A
pH INFORMATION	- KR-980-D 6.3 - 8.5 KR-981-D 5.0 - 7.0
OCTANOL/WATER PARTITION COEFFICIENT	- N/A

### SECTION V - HAZARDOUS REACTIVITY

INSTABILITY	- Stable
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INCOMPARABILITY	-	May ignite in the presence of heat and combustible materials.
DECOMPOSITION	-	Lead and Chromium oxides form when burned.
POLYMERIZATION	-	Will not occur.

### **SECTION V - FIRE AND HAZARD EXPLOSION DATA**

FLASH POINT	-	N/A
METHOD	-	N/A
AUTOIGNITION TEMP	-	N/A
FLAMMABILITY LIMITS IN AIR (%BY VOL.)	LOWER: N/A	UPPER: N/A
FIRE AND EXPLOSION HAZARDS:	Oxidizer, may ignite in the presence of heat and combustible materials.	

EXTINGUISHING MEDIA: Carbon Dioxide on pigment, water on fire in surrounding area.

SPECIAL FIREFIGHTING PROCEDURES: CO<sub>2</sub> or water extinguishers maybe used.

### **SECTION VI - HEALTH HAZARD INFORMATION**

#### EXPOSURE LIMITS:

OSHA 8-hour Time Weighted Average (TWA) is 0.05 mg/m<sup>3</sup> (as Pb).

ACGIH TWA is 0.05 mg/m<sup>3</sup> (as Cr); ACGIH Paragraph A2, Carcinogen (for PbCrO<sub>4</sub>).

Significant Routes and Effects of Exposure: Repeated and prolonged exposure may cause delayed effects involving the blood, gastrointestinal, nervous and reproductive systems.

Non-silica encapsulated lead chromate is currently listed as suspect carcinogen, therefore this information is included, even though recent toxicity data indicates lead chromate pigments:

- \* Are non-carcinogenic, or at least show extremely low carcinogenic potential based on studies from lung implantation experiments on rats.
- \* Do not show an increased in lung cancer rate from epidemiological studies in factories which produce only lead chromate pigments.

#### HEALTH HAZARD INFORMATION - FOR SILICA ENCAPSULATED PRODUCTS:

Silica encapsulation encases the base pigment with a continuous, dense, amorphous coating of "glass". This composition creates a new class of lead chromate based pigments which provides a barrier between the core pigment and the workplace and environment. The effectiveness of the silica coating is readily demonstrated by the fact that extractable lead and chromium is significantly less that extracted from non-encapsulated lead chromate pigments. This unique composition also modifies the toxicological properties of the base pigment, demonstrated by the fact that such compositions do not show mutagenic substances. The Chemical Abstract Registry Services recognized the unique composition of silica encapsulated lead chromate based pigments by assigning a Chemical Abstract Service Registry Number (CAS Registry Number) to these compositions.

#### SAFETY PRECAUTIONS: FOR INDUSTRIAL USE ONLY

- \* Harmful if swallowed
  - \* Use adequate Personal Protection Equipment to avoid breathing respirable dust.
  - \* Wash thoroughly after handling.
  - \* Keep containers tightly closed.
-

**SECTION 313 SUPPLIER NOTIFICATION**

Notification that products listed below contain chemicals subject to reporting requirements of SARA Title III, Section 313, and of 40 CFR 372.

	CHEMICAL CATEGORY* AND WEIGHT%			
	% LEAD (CAS # 7439-92-1)	% CHROMIUM (CAS # 7440-47-3)	% ANTIMONY (CAS #7440-36-0)	% ALUMINUM (CAS #1344-28-1)
KR-980-D	42	10	1	1
KR-981-D	34	8	1	2

**CALIFORNIA PROPOSITION 65 STATEMENT\*\***

**WARNING:** This product contains a chemical known to the state of California to cause cancer. Product contains Hexavalent Chromium.

**WARNING:** This Product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Product contains Lead.

\*\*This statement and exact wording is included as required by the State of California. The conclusion that all Chromium (VI) and lead compounds have the same toxicological properties is not supported by current toxicological data for lead chromate based pigments.

\*Metal content or chemical is weight percent contained in the product. CAS number for the parent metal is indicated.

**NEW JERSEY RIGHT-TO-KNOW INGREDIENT INFORMATION**

Ingredients listed below are the most predominant ingredients in the product. If 5 ingredients are not listed, then the product does not contain 5 ingredients in amounts greater than 1%.

**KR-980-D**

Silica Encapsulated C.I. Pigment Red 104 - CAS #116565-73-2  
(Contains Lead Chromate CAS #7758-97-6)

Amorphous Silica CAS #7631-86-9

C.I. Pigment Violet 19 - CAS #1047-16-1

**KR-981-D**

Silica Encapsulated C.I. Pigment Red 104 - CAS #116565-73-2  
(Contains Lead Chromate CAS #7758-97-6)

Amorphous Silica CAS #7631-86-9

C.I. Pigment Red 202 - CAS #3089-17-6

Trade Secret #594235-00-1-5021-P, #594235-00-1-5022-P

**SECTION VII - EMERGENCY & FIRST AID PROCEDURES**

**INGESTION:** When conscious, give fluids. Call a Physician

**SKIN CONTACT:** Remove contaminated clothing. Wash with soap and water. Launder contaminated clothing before reuse.

**EYE CONTACT:** Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

**INHALATION:** Remove affected person from source of exposure. If not breathing, institute cardiopulmonary

resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Keep affected person warm and at rest. Get immediate medical attention.

### **SECTION VIII - PERSONAL PROTECTION INFORMATION**

EYE PROTECTION: Sideshield Safety Glasses

SKIN PROTECTION: Leather gloves or other non-permeable gloves

RESPIRATORY PROTECTION: Use NIOSH approved air purifying respirator with HEPA Dust Cartridges for concentrations below 0.05 mg/m<sup>3</sup> as Pb. For concentrations above 0.05 mg/m<sup>3</sup> as Pb, use full face respirator or air supplied respirator. See OSHA standard 29 CFR 1910.1025.

OTHER: Practice good hygiene, wash hands and face before eating or smoking. Launder clothing before reuse.

VENTILATION: Use only with adequate ventilation and dust containment to reduce dust concentrations to permissible exposure limits. See OSHA standard 29 CFR 1910.1025.

### **SECTION IX - ENVIRONMENTAL INFORMATION**

AQUATIC TOXICITY: Not Available

#### **SPILL OR RELEASE TO THE ENVIRONMENT:**

Scoop and vacuum up, place in a closed container for disposal. Avoid dusting. Comply with Federal and Local Regulations. Dispose of in permitted chemical landfill as RCRA Waste.

### **SECTION X - TRANSPORTATION REQUIREMENTS**

D.O.T. HAZARD CLASS	- Not regulated
D.O.T. PROPER SHIPPING NAME	- N/A
D.O.T. LABELS REQUIRED	- N/A
D.O.T. PLACARDS REQUIRED	- N/A
BILL OF LADING DESCRIPTION	- N/A
UN/NA CODE	- N/A

STORAGE CONDITIONS: Protect containers from breakage. Clean-up all spills immediately. Store in a clean dry area. Keep away from food product.

### **DISCLAIMER OF LIABILITY**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.