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### 1-PRODUCT IDENTIFICATION

-PRODUCT NAME	<i>INTERSTAR</i> mortar colors
-CHEMICAL FAMILY	Inorganic Metal Oxides
-CHEMICAL NAME	Iron (III) Oxide
-SYNONYMS	Ferric Oxide
-C.A.S. #	1309-37-1, 20344-49-4, 1317-61-9
-CHEMICAL FORMULA	Fe <sub>2</sub> O <sub>3</sub> , Fe <sub>3</sub> O <sub>4</sub> , Fe <sub>2</sub> O <sub>3</sub> ·H <sub>2</sub> O

### 2-HAZARDOUS INGREDIENTS

Components	%	C.A.S. #	LD/50, species
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-None

### 3-PHYSICAL DATA

-PHYSICAL STATE	Dry powder
-COLOR	Buff, Tan, Brown, Black, Red, Yellow.
-ODOR	None
-pH	n. av.
-MELTING POINT	n. av.
-BOILING POINT	n. ap.
-VAPOR PRESSURE	n. ap.
-DENSITY	n. av.
-SPECIFIC GRAVITY	n. av.
-SOLUBILITY IN WATER	Insoluble
-VOLATILE BY WEIGHT	< 1 %

### 4-FIRST AID MEASURES

-EYE CONTACT	Flush eyes with plenty of water, lifting lids periodically for at least 15 minutes. Consult a physician if irritation persists.
-SKIN CONTACT	Wash with soap and water.
-INHALATION	Remove from dusty area to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
-INGESTION	Immediately contact a physician.

## 5-FIRE AND EXPLOSION DATA

-FLASH POINT °F (°C)	n. ap.
-FLAMMABILITY LIMITS	
lower	n. ap.
upper	n. ap.
-EXTINGUISHING MEDIA	Inflammable
-SPECIAL FIRE FIGHTING PROCEDURES	None
-UNUSUAL FIRE & EXPLOSIVE HAZARDS	High concentrations of dust in suspension may present risks for explosions.
-HAZARDOUS COMBUSTION PRODUCTS	None
-N.F.P.A. RATINGS	Health: 0, Fire: 0, Reactivity: 0, Special Hazard: -

## 6-ACCIDENTAL RELEASE MEASURES

-CLEAN UP PROCEDURE	Common housekeeping, vacuum or scoop material into a container for reclamation or disposal.
-EVACUATION PROCEDURE	None special
-SPECIAL INSTRUCTION	None

## 7-HANDLING AND STORAGE

Appropriate ventilation should be provided to keep dust concentrations below acceptable exposure limits. Store in a cool, dry, well-ventilated area.

## 8-EXPOSURE CONTROLS/PERSONAL PROTECTION

-ENGINEERING CONTROLS	Local exhaust ventilation
-EYE/FACE	Safety glasses
-RESPIRATORY	NIOSH approved dust respirator when required for dust.
-VENTILATION	Local exhaust when required for dust.
-GLOVES	Use appropriate gloves to minimize contact with skin
-HYGIENE	Wash thoroughly after handling and before eating. Keep dust away from food and beverages.
-OTHER	Eyewash fountains and safety showers should be easily accessible

## 9-STABILITY AND REACTIVITY DATA

-STABILITY	Stable
-INCOMPATIBILITY	Carbon monoxide, hydrazine, calcium hypochloride, performic acid, bromine pentafluoride, strong acids.

-HAZARDOUS DECOMPOSITION OR BY PRODUCTS	None
-HAZARDOUS POLYMERIZATION	Will not occur

#### 10-TOXICOLOGICAL INFORMATION

-SKIN	No adverse effect expected
-EYES	May cause mechanical irritation
-ACUTE INHALATION	May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.
-INGESTION	Extremely large oral dosages may produce gastrointestinal disturbances.
-EFFECTS OF: ACUTE OVEREXPOSURE CHRONIC OVEREXPOSURE	Nuisance Dust Long-term inhalation exposure to iron has resulted in mottling of the lungs, a condition referred to as siderosis. This is considered a benign pneumoconiosis and does not ordinarily cause significant physiological impairment. Long term eye exposures may stain the eyes and leave a "rust ring".
-MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	Persons with impaired respiratory function may be more susceptible to the effects of the substance
-CARCINOGENICITY	Not indicated
-EXPOSURE LIMITS OSHA PEL ACGIH TLV	10 mg/m <sup>3</sup> of total dust Iron oxide dust and fume (Fe <sub>2</sub> O <sub>3</sub> ) as Fe: 5 mg/m <sup>3</sup> (TWA), inhalable particulate

#### 11-ECOLOGICAL INFORMATION

-ECOTOXICITY	Not expected to be a hazard to environment. Iron oxides also exist as natural products.
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#### 12-DISPOSAL CONSIDERATIONS

-WASTE DISPOSAL	Material that cannot be reclaimed should be land filled in accordance with local, state and federal regulations.
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#### 13-TRANSPORT INFORMATION

-UN NUMBER	None
-DOT CLASSIFICATION	Not regulated
-PACKING GROUP	None
-HAZARDOUS SUBSTANCES REPORTABLE QUANTITY	None
-SPECIAL PROVISIONS FOR TRANSPORT	None
-ADDITIONAL SHIPPING INFORMATION	None
-INTERNATIONAL TRANSPORTATION REGULATIONS	n. av.

#### 14-REGULATORY INFORMATION

-OSHA Hazard Communication Standard	n. av.
-W.H.M.I.S. (Canada)	Not regulated

#### 15-OTHER INFORMATIONS

n. ap.= Not applicable

n. av.= Not available

Prepared by *INTERSTAR* Technical Service

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