



## MATERIAL SAFETY DATA SHEET

### GENERAL INFORMATION

Manufacturer:  
Chesapeake Specialty Products, Inc.  
5055 North Point Boulevard  
Baltimore, MD 21219

Creation Date: November, 1985  
Review Date: November, 2006

For Additional Information, contact:  
Occupational Health & Safety Division  
(410) 388-5055

MSDS Code: A190

### PRODUCT IDENTIFICATION

Product Name:  
SphereOX<sup>®</sup>  
Synonym(s):  
NA

Formula:  
NA  
Chemical Family:  
Metal Oxide

### TYPICAL CHEMICAL COMPOSITION (1)

#### Permissible Air Level (3)

<u>Ingredient (2)</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>OSHA PEL</u>	<u>ACGTH TLV</u>
Iron Oxides - FeO Fe <sub>2</sub> O <sub>3</sub> , and Fe <sub>3</sub> O <sub>4</sub>	1309-38-2	98 TO 99.5	10(4)	5(4)
Manganese	7439-96-5	0.51	NE	NE
Carbon	7440-44-0	0.07	NE	NE

May contain other trace elements such as Aluminum, CAS No. 1744-28-1; Calcium, CAS No. 7440-70-2; Copper, CAS No. 7440-50-8; Lead CAS No. 7439-92-1; Magnesium, CAS No. 1309-48-4; Nickel, CAS No. 7440-02-0; Silicon, CAS No. 7440-21-3; Tin, CAS No. 7440-31-5; Zinc, CAS No. 7440-66-6; and Zirconium, CAS No. 7440-67-7; Titanium (TiO<sub>2</sub>), CAS No. 1346-67-7, Chromium (Cr<sub>2</sub>O<sub>3</sub>), CAS No. 1308-38-9, Sulfur, CAS No. 7704-34-9; typically less than 0.1% by weight.

**PHYSICAL DATA**

Physical State:	Bulk Density:
Solid	180 lbs./ft. <sup>3</sup>
Appearance and Odor:	Vapor Pressure:
Black powder, predominantly spherical; odorless	NA
Boiling Point:	Vapor Density:
NA	NA
Melting Point:	Evaporation Rate:
NA	NA
Solubility in Water:	% Volatile by Volume:
Negligible	NA

This product does not meet the criteria of a hazardous chemical as defined by the Federal Occupational Safety and Health Hazard Communication Standard (29 CFR 1910.1200(c)). This form is being provided solely as general information and should not be construed as a determination that the product is a hazardous chemical. All sales of this product are subject to CHESAPEAKE'S Standard Terms and Conditions of Sale. CHESAPEAKE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING OR TRADE.

pH:	Particle Size Distribution:
NA	90% of the particles are greater than 53 microns in diameter. Mean particle size is 180 microns.

**FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method):	Lower Explosive Limit:
NA	NA
Autoignition Temperature:	Upper Explosive Limit:
NA	NA
Fire Hazard:	
Potential for ignition is very low and would only occur under conditions of being densely packed and of being exposed to excessive heat, spark, or flame. If burning were to occur, it would proceed very slowly.	
Explosive Hazards:	
NA	
Extinguishing Media:	
Graphite, dolomite, salt, or sand.	
Special Fire fighting Procedures:	
Use care when applying dry powder extinguishing media so as to minimize the generation of airborne or dispersed dusts.	
Unusual Fire and Explosion Hazards:	
NA	

### **REACTIVITY DATA**

Stability:

Stable

Incompatibilities (Materials to avoid):

Mineral acids

Hazardous Thermal Decomposition Products:

None expected

Polymerization:

Will not occur

### **HEALTH HAZARD DATA**

Health Effects/Signs and Symptoms:

Long-term exposure to iron oxide fumes or dusts has been associated with a benign lung condition known as siderosis which is observable as an x-ray change. No physical impairment of lung function has been linked to siderosis.

Usual Route(s) of Entry:

Inhalation (if airborne dusts are generated)

Medical Conditions Possibly Aggravated:

Chronic diseases or disorders of the respiratory system.

Carcinogen Information:

Not considered to be a carcinogen

### **FIRST AID AND MEDICAL EMERGENCY PROCEDURES**

Eye Contact:

Not anticipated to pose an acute or significant eye contact hazard

Skin Contact:

Not anticipated to pose an acute or significant skin contact hazard

Inhalation:

Not anticipated to pose an acute or significant inhalation hazard

Ingestion:

Not considered to be an ingestion hazard

### **OCCUPATIONAL EXPOSURE CONTROL MEASURES**

Engineering Controls (Ventilation, etc.):

Ventilation should be sufficient to maintain dust levels below the applicable exposure limit for nuisance dust

Work Practices (Handling and Storage):

Use in such a manner as to avoid creating large amounts of dust

Eye Protection:

Safety glasses or goggles are recommended when dust levels are excessive

Skin Protection:

Gloves and long-sleeve clothing are recommended when dust levels are excessive

Respiratory Protection:

If ventilation does not control exposure levels below the applicable exposure limit for nuisance dust, a NIOSH-approved respirator for dusts should be worn

### **SPILL, LEAK AND DISPOSAL INFORMATION**

Procedures to Follow if Material is Released or Spilled:

Spilled material should be swept or vacuumed into appropriate containers

Waste Disposal Methods:

Landfill disposal and other methods which are in accordance with local, state and federal regulations.  
Wastes may be recovered for future use.

**ADDITIONAL OR MISCELLANEOUS INFORMATION**

None.

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Footnotes:

- (1) Concentrations may vary somewhat between batches or lots. Where possible, a concentration range is indicated. Occasionally, however, levels may even fall outside of the usual concentration ranges.
- (2) Common names, if applicable, appear in parentheses following the chemical names.
- (3) All values, unless otherwise specified, refer to 8-hour time-weighted average concentrations and units are in mg/M.
- (4) Use of the PEL or TLV for iron oxide ( $\text{Fe}_2\text{O}_3$ ) fume is recommended.

Abbreviations:

NA = Not Applicable  
NE = Not Established  
UK = Unknown (No applicable information was found)  
GT = Greater Than  
LT = Less Than