



Safety Orange

MSDS Number: C24307202012

Revision Date: 07/20/2012

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

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Product Name: Safety Orange
Revision Date: 07/20/2012
Version: 2
MSDS Number: C24307202012
Product Code: C-243
Product Use: Air Cured Polymer Based Ceramic Industrial Coating

2 HAZARDS IDENTIFICATION

Route of Entry: Eyes, Ingestion, Inhalation, Skin
Target Organs: Central Nervous System, Kidneys, Liver
Inhalation: Toxic if inhaled. May cause respiratory tract irritation, dizziness, headaches, unconsciousness, drowsiness, anesthesia and central nervous system depression symptoms.
Skin: Causes skin irritation and skin burns with redness, pain and swelling. May cause itching, scaling, drying, defatting, cracking, stinging and an increase in susceptibility to infection.
Eye: Causes eye irritation, redness, tearing, itching and burning sensation. May cause permanent eye damage or a brief reversible dimness of sight.
Ingestion: Toxic if ingested. Ingestion may cause gastrointestinal tract damage, nausea, vomiting and diarrhea. May cause fatal chemical pneumonitis.

VOC: 2.96 lb/gal (VOC present as 1-chloro-4 - (trifluoromethyl)-benzene). 1-chloro-4 - (trifluoromethyl)-benzene is listed as a VOC-exempt solvent. This product contains Barium Sulfate. The US EPA published the final rule in the June 28, 1994 Federal Register deleting Barium Sulfate from the category "Barium Compounds". This product also contains chemicals containing cadmium.

HMIS III	
HEALTH	3
FLAMMABILITY	3
PHYSICAL HAZARDS	1
PERSONAL PROTECTION F Goggles, Gloves, Apron, Dust Respirator	



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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
	50%	Proprietary Formulation
1306-23-6	2.3-6.3%	Cadmium sulfide
1306-24-7	0.2-3.6%	Cadmium selenide (CdSe)
7727-43-7	0-1.6%	Barium sulfate
1314-23-4	6.5-7.3%	Zirconium oxide (ZrO2)
1314-36-9	0.3-1.1%	Yttrium oxide (Y2O3)

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FIRST AID MEASURES

- Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops, have trained person administer artificial respiration. Keep victim warm and quiet. Seek immediate medical attention.
- Skin Contact:** Remove contaminated clothing and shoes. Wash thoroughly with soap and water for at least 15 minutes. Wash clothing before reuse. Seek immediate medical attention.
- Eye Contact:** Immediately flush with water for 15 to 30 minutes, occasionally lifting eyelids to ensure thorough rinsing. Seek immediate medical attention.
- Ingestion:** Rinse mouth out and then drink plenty of water. Only induce vomiting at the instruction of medical personnel. Never induce vomiting or give anything by mouth to an unconscious or convulsing person. Keep victim warm. Seek immediate medical attention.

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FIRE FIGHTING MEASURES

- Flash Point:** Not available
- LEL:** Not available
- UEL:** Not available
- Flammability:** NFPA Class IB Flammable Liquid
- Extinguishing Media:**
Carbon dioxide, dry chemical powder, water spray or appropriate foam.

Fire and Explosion Hazard:

Combustible Liquid. Over-heated containers may rupture. Use proper personal protective equipment. Product may expand when under pressure. Fumes from this product may cause polymer fume fever.

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ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Keep all unnecessary personnel away, and isolate hazard area. Wear proper personal protective equipment. Eliminate all sources of ignition.

Environmental Precautions:

Contain liquids and prevent discharge into streams and sewers, control or stop the loss of volatile material to the atmosphere. Do not apply water to the spill. Spills should be reported, if required, to the appropriate local, state, or federal agencies.

Small Spills:

Cover with an inorganic absorbent, such as vermiculite, perlite, ground clay, or sand; sweep up, and dispose of appropriately. Clean contaminated area with soap and water. Transfer to a container for disposal according to local/state/national



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regulations.

Large Spills:

Dike to contain and pump into drums for disposal. Add vermiculite absorbent to remaining material (as above).

7 HANDLING AND STORAGE

Handling Precautions:

Keep away from heat, sparks, pilot lights, welding operations, and open flames.
Use with adequate ventilation.
Vapors are heavier than air and will tend to collect in low areas - avoid use in confined spaces.
Avoid breathing fumes.
Avoid bodily contact with material.
Wear appropriate personal protective equipment.
Wash thoroughly after handling, avoid contact with eyes.
No eating, drinking or smoking near areas where substance is handled, processed or stored.
Ground coating equipment at all times.
Areas of poor ventilation could contain concentrations high enough to cause unconsciousness and death.

Storage Requirements:

Keep away from all sources of ignition.
Avoid moisture and static electricity discharges.
Keep tightly closed when not being used.
Label all containers appropriately.
Do not reuse containers.
Do not store near food or drinks.
Store in a cool dry place designated for combustible liquid storage.
Vent periodically, if needed, to release head pressure.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Adequate room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits. Use of fume hoods or closed booths recommended when product is used in a manner that may generate mist or aerosol.

Personal Protective Equip:

HMIS PP, F | Goggles, Gloves, Apron (impervious protective clothing are recommended with apron), Dust/Mist Respirator

Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Use NIOSH approved respirator (particle mask) for fumes. Do not breathe vapors.

Other:

Emergency shower and eyewash facility should be in close proximity. Completely isolate and thoroughly clean all equipment, piping or vessels with a high flash, non-polar solvent before beginning maintenance or repairs.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Orange liquid, hardens to a orange ceramic

Physical State:

Liquid (After air cure solid)

Boiling Point:

N/A - material hydrolyzes

Odor:

Ammonia

Solubility:

Virtually Insoluble



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10 STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Sources of ignition, incompatible materials.

Materials to Avoid: Reacts vigorously and exothermically with isocyanates. Material will react slowly with water and other protic solvents. This product may react with strong mineral acids, alkalies, interhalogen compounds, strong bases and strong oxidizing agents.

Hazardous Decomposition: May contain carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen chloride gas, hydrogen fluoride, hexafluoropropylene, perfluoroisobutylene, carbonyl fluoride, metal oxides, cadmium oxide, organic acids, sulfur dioxide, selenium dioxide and silicon dioxide.

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

NTP Carcinogen: No IARC Monographs: No OSHA Regulated: No

Not known to contain any ingredients recognized as carcinogens by the National Toxicology Program (NTP), the International Agency for Cancer Research (IARC) or the Occupational Safety and Health Administration (OSHA).

Reported Human Effects:

No human studies have been conducted with this material. The use of recommended protective equipment should prevent any adverse effects.

Reported Animal Effects (from components of liquid ceramic):

Oral LD50, rat: 200-2000 mg/kg

Skin irritation, rabbit; severe erythema with signs of necrosis after 1-hour exposure.

12 ECOLOGICAL INFORMATION

Water hazard class 1 (self-assessment): Slightly hazardous for water.
Avoid disposal in landfills and sewage systems.

Avoid release to surface waters and waste treatment systems. This material may be hazardous to aquatic organisms.

13 DISPOSAL CONSIDERATIONS

This product is not regulated by the EPA. It is the waste generator's responsibility to determine if a particular waste is hazardous. Disposal should be made in accordance to federal, state, and local regulations. Dispose of in a licensed facility. Do not discharge into drains, surface waters or groundwater.

14 TRANSPORT INFORMATION

DOT Class: Flammable Liquid (3) #3

US DOT:

Proper Shipping Name: Chlorobenzotrifluorides



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Hazard Class: 3
UN Number: 2234
Packing Group: III

IATA:

Proper Shipping Name: Chlorobenzotrifluorides
Hazard Class: 3
UN Number: 2234
Packing Group: III
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REGULATORY INFORMATION

HCS Classification: Not Regulated

U.S. Federal Regulations: TSCA All components are listed or exempted

SARA 302/304/311/312/313: No products were found

California Proposition 65:

This product contains no chemicals known to the state of California to cause cancer and birth defects, or other reproductive harm.

Canadian DSL Inventory Status: Proprietary formulation compounds are listed on the NDSL, all other components are listed on the Canadian DSL Inventory List.

*Proprietary Formulation (50%)

*Cadmium sulfide (1306236 2.3-6.3%) MASS, PA, TSCA

*Cadmium selenide (CdSe) (1306247 0.2-3.6%) TSCA

*Barium sulfate (7727437 0-1.6%) MASS, OSHAWAC, PA, TSCA, TXAIR

*Zirconium oxide (ZrO2) (1314234 6.5-7.3%) TSCA

*Yttrium oxide (Y2O3) (1314369 0.3-1.1%) TSCA

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
OSHA = OSHA Workplace Air Contaminants
TXAIR = TX Air Contaminants with Health Effects Screening Level

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OTHER INFORMATION

U.S. Federal Regulations:

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to all your employees.



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This product safety sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant ammendements, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.