



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY: HALOX
1326 Summer Street
Hammond, IN 46320-2240

PRODUCT NAME: HALOX® 750

Phone: 219-933-1560 (US Central) M-F 8:00 am - 5:00 pm

Emergency Phone: 219-845-0031

Chemtrec: 1-800-424-9300

Product Use: Corrosion inhibiting pigment, commonly used in the production of protective coating systems.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	% Composition	ACGIH TLV:	ACGIH STEL:	OSHA PEL:	OSHA STEL:	TWA/STEL Units are in:
(2-Benzothiazolythio) butanedioic acid 95154-01-1	0.1-5	NE	NE	NE	NE	mg/m ³
Zinc Oxide 1314-13-2	1-10	10	NE	15*, 5**	NE	mg/m ³

EXPOSURE LIMIT STATEMENT

*Total dust, ** respirable dust
NE - None established

HMIS

HEALTH:	1
FLAMMABILITY:	0
REACTIVITY:	0
PERSONAL PROTECTION:	*

* Recommended personal protective measures are identified in Section 8.0 of this document.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

This material is not flammable. However, if involved in a fire, may emit toxic fumes.
This material is a white, odorless powder.
Excessive airborne concentrations may obscure vision and present an inhalation and ingestion hazard.
Spill materials and associated run-off should not be allowed to reach waterways.

POTENTIAL ACUTE HEALTH EFFECTS:

EYE CONTACT:

May cause moderate to severe irritation, inflammation of the mucous membranes, and tearing of the eyes.

SKIN CONTACT:

May cause irritation to skin through mechanical abrasion or physically irritating deposition.

INGESTION:

May cause irritation of gastrointestinal tract, nausea, and vomiting.

INHALATION:

May cause irritation to the upper respiratory tract, difficulty in breathing, nasal discharge, chest pain, wheezing and coughing.

Routes of Exposure: Inhalation, ingestion, skin and eye contact.

POTENTIAL CHRONIC HEALTH EFFECTS:

Chronic exposures are considered negligible.

Medical conditions aggravated by exposure: Any pre-existing lung or pulmonary condition.

4. FIRST AID MEASURES

INHALATION:

Remove victim to fresh air. Restore breathing if necessary (AR, CPR). Seek medical attention if symptoms develop or persist.

INGESTION:

If victim is alert, wash out mouth with water. Seek medical attention if symptoms develop or persist.

EYES:

Do not let victim rub eyes. Flush eyes well with water for at least 15 minutes. If irritation persists, seek medical attention.

SKIN:

Wash exposed area with soap and water. If irritation persists, seek medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT (° F) Not applicable.

OSHA FLAMMABILITY CLASSIFICATION: Not Applicable.

EXTINGUISHING MEDIA: This material is not flammable and will not react with commercially available extinguishing media. Use appropriate media for surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing.

AUTOIGNITION TEMP (° F) Unknown

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Always wear recommended personal protective equipment. The spill should first be contained and the area should be cleaned by wet-sweeping or vacuum cleaning (HEPA filter). Limit foot and vehicular traffic to minimize mechanical agitation and dispersion. Notify In-plant Spill Response Coordinator or appropriate party to determine any additional requirements pertaining to spill response.

CONTAINMENT TECHNIQUES: This is a solid material and will not travel far from the spill location unless mechanically agitated. Therefore, no specific containment techniques are recommended outside of restricting access to the spill location.

SPILL RESPONSE EQUIPMENT:

- Vacuum, equipped with HEPA filter
- Broom, wet mop
- Dustpan, shovel or scoop
- Bags, drums or sacks for collection

SPILL RESPONSE PERSONAL PROTECTIVE EQUIPMENT:

- Chemical/safety impact goggles
- Rubber or leather gloves
- Cotton overalls
- If airborne concentrations cannot be controlled below the required or recommended exposure limits, respiratory equipment, as per Section 8.0, may be required.

7. HANDLING AND STORAGE

HANDLING:

Always wear recommended personal protective equipment. Avoid dust generation.

STORAGE:

Store in a cool, dry, well-ventilated area away from sources of ignition. Keep containers tightly closed when not in use. Use care when handling and storing containers to prevent damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General mechanical ventilation is acceptable, as long as concentrations are maintained below required/recommended limits. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

RESPIRATORY PROTECTION EQUIPMENT: NIOSH/MSHA approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits identified in section 2. Where no required/recommended exposure limits exist, personal protection measures should be incorporated when potential airborne concentrations may exceed 10 mg/m³ total dust and 3 mg/m³ respirable dust (particulate containing no asbestos and <1% crystalline silica).

PROTECTIVE GLOVES: Rubber or leather gloves and cotton coveralls are recommended to prevent direct skin contact.

EYE AND FACE PROTECTION: Wear safety glasses or goggles to protect against exposure.

OTHER PROTECTIVE EQUIPMENT: An emergency eye wash is recommended in the work area and should, at a minimum, meet the requirements under ANSI Z.358.1 for location, design, and operation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range/Point	None established
Freezing Point	None established
Melting Point	1540 °C (2804 °F)
Vapor Pressure	Not applicable
Vapor Density (AIR=1)	Not applicable

Physical State	Powder
Color	White
Percent Moisture	<2.0
Solubility in Water	<0.02%
% Volatile by Weight	Not applicable
Evaporation Rate (Butyl Acetate=1)	Not applicable
Density	3.0 g/ml
pH*	6-8
Mean Particle Size (µm)	4-6

*at 10% slurry by weight in water.

10. STABILITY AND REACTIVITY

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS: After prolonged contact with water, this substance will revert to its associated salts.

INCOMPATIBILITY (MATERIALS TO AVOID): This product will solubilize in acid, ammonia hydroxide, or prolonged contact with water.

CONDITIONS TO AVOID: Incompatible materials, excess heat.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: This product contains wollastonite. Wollastonite is listed by IARC as a Group 3 carcinogen. Therefore, there is inadequate evidence of its carcinogenicity in humans and inadequate or limited evidence in experimental animals.

ACUTE ORAL LD50 (mg/kg): No data at this time.

ACUTE INHALATION LC50: No data at this time.

ACUTE DERMAL LD50 (mg/kg): No data at this time.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data at this time

CHEMICAL FATE INFORMATION: No data at this time.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Re-blend spilled, unused, off-specification materials with other materials, where possible, in support of waste minimization. Where this is not possible, dispose of material according to Federal (country-specific), state, and local requirements.

EMPTY CONTAINERS: This product may be shipped in paper or nylon bags, steel drums, plastic or steel pails, or intermediate bulk containers. All residual material should be emptied and the containers recycled where possible. Where recycling is not possible, all containers should be disposed of in accordance with Federal (country-specific), state, and local requirements.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Not Regulated

**AIR FREIGHT
TRANSPORTATION:** Not Regulated

OCEAN TRANSPORTATION: Not Regulated

15. REGULATORY INFORMATION

TSCA STATUS:

All components of this product are on the US TSCA Inventory.

CALIFORNIA PROPOSITION 65:

This product is not known to contain any chemicals known to the state of California to cause cancer or birth defects. However, we do not conduct routine analysis for all listed materials.

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES LIST:

This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substance List.

SARA (311, 312) HAZARD CLASS:

None

SARA SECTION 313 TOXIC CHEMICALS:

Zinc Compounds
18-22%

CANADIAN INVENTORY:

All components are on the Domestic Substance List (DSL).

EINECS REGULATIONS:

All components are on the European Inventory of Existing Commercial Chemical Substances (EINECS).

16. OTHER INFORMATION

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

17. LABEL INFORMATION

SIGNAL WORD:	NOTICE
TARGET ORGANS:	May cause eye, skin, or respiratory irritation.
EYES:	Do not let victim rub eyes. Flush eyes well with water for at least 15 minutes. If irritation persists, seek medical attention.
SKIN:	Wash exposed area with soap and water. If irritation persists, seek medical attention.
INGESTION:	If victim is alert, wash out mouth with water. Seek medical attention if symptoms develop or persist.
INHALATION:	Remove victim to fresh air. Restore breathing if necessary (AR, CPR). Seek medical attention if symptoms develop or persist.
HANDLING:	Always wear recommended personal protective equipment. Avoid contact with skin, eyes and clothing.
STORAGE:	Store in a cool, dry, well-ventilated area away from sources of ignition. Keep containers tightly closed when not in use. Use care when handling and storing containers to prevent damage.
IN CASE OF SPILL:	Collect and dispose in accordance with federal, state and local regulations.
EXTINGUISHING MEDIA:	This material is not flammable and will not react with commercially available extinguishing media. Use appropriate media for surrounding fire.
CALIFORNIA PROPOSITION 65:	This product is not known to contain any chemicals known to the state of California to cause cancer or birth defects. However, we do not conduct routine analysis for all listed materials.