

SDS
Glass Frit, Lead Free
GPP-16



Thompson Enamel

P.O. Box 310 Newport, KY 41072 USA ~ (859) 291-3800 fax (859) 291-1849

SECTION 1: Identification of the substance/mixture and of the company

Product Name: Glass Painting Enamel, Lead Free
 Identified uses: For enameling
 Synonyms: Glass Painting Enamel, CX8140, White
 Supplier: Thompson Enamel
 650 Colfax Avenue
 Bellevue, Ky. 41073 U.S.A.
 Phone: 859-291-3800
 Fax: 859-291-1849
 Email: info@thompsonenamel.com

SECTION 2: Hazards identification

EEC Risk Phrases: Not Evaluated
 EEC Safety Phrases: Not Evaluated
 Methods for Cleanup: See Section XI for Toxicological Information.

SECTION 3: Composition/Information on ingredients

<u>Ingredients:</u>	<u>CAS No:</u>	<u>% Weight</u>	<u>EINECS</u>	<u>(Typical)</u>
Titanium Dioxide	13463-67-7			0-15
Zinc-Boro-Silicate Glass Frit	65997-18-4* _____			80-100

Synonyms: CX8140 - White Powder

<u>As Regulated</u> <u>(Related Exposure Limits)</u>	<u>OSHA PEL**</u> <u>(mg/m³)</u>	<u>OSHA PEL</u> <u>(mg/m³)</u>	<u>ACGIH TLV</u> <u>(mg/m³)</u>	<u>%Metal</u> <u>(Typical)</u>	<u>Sara</u> <u>313</u>
Fluorides (as F)		2.5	2.5	5-10	No
Glass- fused Particulates (Insoluble) Not Otherwise Regulated		5 Respirable, 15 mg/m ³ Total	3.0 Respirable, 10 mg/m ³ inhalable	80-100	No
Silica -Quartz		10 /%SiO ₂ +2 (Respirable) Or 30/%SiO ₂ +2 (Total dust)	0.05 Respirable	0-10	No
Titanium dioxide (Total Dust)	10	15	10	0-15	No
Zinc compounds (as Zn)		None		25-30	Yes
Zirconium compounds (as Zr)		5	5, 10 mg/m ³ STEL	0-5	No

** The following PEL's were modified in 1989 but were challenged in 1992 and vacated. Several state programs may still recognize these.

SECTION 4: First aid measures

If inhaled:	If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.
On ingestion:	If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.
On contact with eyes:	On contact with eyes flush eyes with plenty of water for at least fifteen (15) minutes. Call a physician.
On skin contact:	On skin contact, wash thoroughly with soap and water.

SECTION 5: Firefighting measures

Suitable extinguishing media:	This product will not burn. Use suitable extinguishing media for fighting surrounding fire.
Unsuitable extinguishing media:	Not applicable
Emitted when burned:	Not applicable
Special protective equipment:	This product will not burn. Use appropriate techniques for fighting surrounding fire.
Further information:	None

SECTION 6: Accidental release measures

Personal precautions:	Maintain appropriate dust control.
Environmental precautions:	Prevent contamination of soils, drains and surface water.
Methods for cleanup:	Transfer material into closed container for re-use or disposal.

SECTION 7: Handling and storage

Handling:	Good housekeeping procedures should be followed to prevent dust during processing. Do not eat, drink or smoke in work areas. Wash thoroughly with soap and water after handling. Provide eye wash stations in areas of handling.
Storage:	Store material in a closed container. Normal warehousing

SECTION 8: Exposure Controls/Personal protection

Engineering controls/measures:	Use mechanical ventilation to keep dust below regulatory standards (see Section II). Design criteria usually cannot be specified in an MSDS because of its complexity.
Personal Protective Equipment:	
Respiratory protection:	MSHA/NIOSH respirators approved for dusts TC-21C or NIOSH approved cartridges for Non-oil aerosols, N95, N99, N100 (42 CFR 84).
Hand protection:	Rubber, PVC coated gloves, impermeable.
Eye protection:	Safety Glasses with side shields, mono goggles.
Body protection:	No special precautions (see hand protection).

General safety and hygiene measures:

Good housekeeping procedures should be followed to prevent dust during processing.

SECTION 9: Physical and chemical properties

Appearance:	White Powder
Odor:	No Odor
Melting point/melting range:	Not Determined
Boiling point/boiling range:	Not applicable
Flash point:	Not applicable
Combustibility:	Not applicable
Explosion limits:	
Lower Vol. %:	Not applicable
Upper Vol. %:	Not applicable
Ignition temperature:	Not applicable
Self-ignition:	Not applicable
Self-ignition temperature:	Not applicable
Explosion hazard:	Not applicable
Fire promoting properties:	Not applicable
Vapor pressure:	Not applicable
Specific gravity:	>1
Bulk density:	No data available
Packing density:	No data available
Solubility in Water:	<2
Solubility in other solvents:	Negligible
pH value:	No data available
Octanol/water partition coefficient (log POW):	Not applicable
Viscosity:	Not applicable
Other information:	Not applicable

SECTION 10: Stability and reactivity

Conditions to avoid:	None known
Materials to avoid:	None known
Hazardous reactions:	None known
Hazardous decomposition products:	None known

SECTION 11: Toxicological information

Acute Toxicity

LD50/oral/rat:	Not Tested
LD50/inhal/rat:	Not Tested
Sensitizing:	None expected

Labeling according to EEC Directives: Not Evaluated

SARA

SARA 312:

Health:	Immediate (Acute):	No*	Fire:	None
	Delayed (Chronic):	Yes**	Reactivity:	None
			Sudden release of pressure:	None

*Not an acute hazard, however may cause irritation due to abrasiveness.

** See Section 11

SARA 313:

THIS PRODUCT CONTAINS A CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

70-100% Zinc Compound

Inventories

The ingredients of this product have been listed in the following inventories:

Europe EINECS:	Listed
U.S.A. TSCA:	Listed

HMIS Code:

SECTION 16: Other information

References

DOT	Department of Transportation
OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstracts Service
TSCA	Toxic Substances Control Act

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

The information and recommendations contained in this SDS have been compiled from sources believed to be reliable and to represent current opinion on the subject when the SDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

UPDATED MAY 2015