SDS Lead Free Enamel SEC-18 Painting and Screening Enamel



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

Product Name: Painting and Screening Enamel Identified uses: For enameling Synonyms: Enamel, SEC-18, Bright Yellow Supplier: Thompson Enamel 650 Colfax Avenue Bellevue, Ky. 41073 U.S.A. Phone: 859-291-3800 Fax: 859-291-1849 Email: info@thompsonenamel.com

The specific chemical identites are being withheld as a trade secret (29CFR1910.1200).

SECTION 2: Hazards identification

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

SECTION 3: Composition/Information on ingredients

			% Weight
Ingredients:	<u>CAS No:</u>	<u>EINECS</u>	<u>(Typical)</u>
CI Pigment Orange 20	12656-57-4		0-5
CI Pigment Yellow 35 (CdZnS)	12442-27-2		5-10
Zinc-Boro-Silicate Glass Frit	65997-18-4*_		70-80
Zinc-Boro-Silicate Glass Frit with cadmium	65997 -18-4*		0-10

As Regulated	OSHA PEL**	OSHA PEL	ACGIH TLV	%Metal	Sara
(Related Exposure Limits)	<u>(mg/m³)</u>	<u>(mg/m³)</u>	<u>(mg/m³)</u>	(Typical)	<u>313</u>
Cadmium (as Cd) see 1910.1027		0.005	0.01, 0.002 mg/m3 Respirable	5-10	Yes
Fluorides (as F)		2.5	2.5	0-5	No
Glass- fused Particulates (Insoluble) Not Otherwise Regulated		5 Respirable, 15 mg/m3 Total	3.0 Respirable, 10 mg/m3 inhalable	70-90	No
Selenium compounds (as Se)	0.2	0.2	0.2	0-0.1	Yes
Silica -Quartz		10 /%SiO2 +2 (Respirable) Or 30/%SiO2+2 (Total dust)	0.05 Respirable	0-10	No
Zinc compounds (as Zn)		None		15-20	Yes

Zirconium compounds (as Zr)	5	5, 10 mg/m3 STEL 0-5	No
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** 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 pr	roperties
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Appearance:	Yellow Liquid
Odor:	No Odor
Melting point/melting range:	Not Determined
Boiling point/boiling range:	Not available
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
Primary skin irritation/rabbit:	No data available
Primary mucous membrane irritation/ra	bbit' eyes: No data available

ADDITIONAL INFORMATION:

Zinc-Boro-Silicate or Zinc-Alkali-Boro-Silicate Glass Frit-

Repeated overexposure to this compound may cause eye, skin and respiratory tract irritation. Some compounds of the metals used in the manufacturing of this Frit, Zinc, have demonstrated various toxic properties (1,2,3,4). However, there is no evidence that this frit has these toxic characteristics.

Long term overexposure to silica causes pneumoconiosis and silicosis, a form of pulmonary fibrosis. Continued exposure to silica can lead to cardiopulmonary impairment. Symptoms are usually delayed (10 years or more), but may appear in as little as 8-18 months after initial exposure.

Zinc is not inherently a toxic element. However, when heated, it evolves a fume of Zinc Oxide, when inhaled fresh, can cause a disease known as "Brass Chills" characterized by sweet taste, throat dryness, cough, weakness, generalized aching, fever, nausea, and vomiting. It is possible for people to become immune to it, but the immunity can be broken by cessation to exposure for a few days.

Routes of Entry:

Eyes: No	Skin: No	Inhalation: Yes	Ingestion: Yes		
CARCINOGE	NICITY: NTP:		Yes	IARC Monographs:	Yes
OSHA Regula	ated:		No		

Crystalline silica has been reviewed by IARC. IARC found limited evidence for carcinogenicity of crystalline silica in humans and sufficient evidence in experimental animals. Crystalline silica inhaled in the form of quartz or crystabolite from occupational sources is carcinogenic to humans (IARC Monograph, Volume 68). Silica, crystalline is known to be a human carcinogen (NTP 10th Edition) Warning: This product contains a chemical known to the State of California to cause cancer.

Signs and Symptoms of Exposure:	Irritation of the eyes, skin and respiratory tract.	
Medical Conditions Generally Aggravated by Exp	osure:	Respiratory and skin disorders aggravated
		by dust.

SECTION 12: Ecological information

No specific ecological data available for this product.

SECTION 13: Disposal considerations

Waste disposal recommendations: Trash can.

SECTION 14: Transportation information

This product is not Department of Transportation (DOT) regulated. This product is not TDG (Canada) regulated.

SECTION 15: Regulatory information

 Labeling according to EEC Directives: Not Evaluated

 SARA

 SARA 312:

 Health:
 Immediate (Acute):
 No*

 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.

5-25% Cadmium Compound 0-0.5% Selenium Compound 70-90% Zinc Compound

Inventories

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

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

SECTION 16: Other information

References

DOTDepartment of TransportationOSHAOccupational Safety and Health AdministrationCASChemical 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.

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