

SUMMERS OPTICAL CAT#: 12800
SUMMERS PRODUCT: MILBOND TYPE I
PART A
DATE: 06/01/09
PAGE NUMBER: 1 OF 4

MATERIAL SAFETY DATA SHEET

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

Summers Optical assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

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FOR PRODUCT AND SALES INFORMATION
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PRODUCT IDENTIFICATION

PRODUCT NAME: Lens Bond Optical Cement Type- Milbond Type I
Part A

HAZARD IDENTIFICATION

*NOTE: All of the ingredients contained in Milbond Type I Part A are listed on the TSCA Inventory.

	OSHA PEL	ACGIH TLV	OTHER EXP LIMITS	% OPT	CAS#
Fumed Silica:	20mppcf	5mg/m3	N/A	1	7631-86-9
Bisphenol A/Epichlorhydrin Resin:	N/E	N/E	N/A	52.5	25068-38-6
Red Iron Oxide:	N/A	N/A		46.5	1309-37-1

N/A = NOT APPLICABLE

N/E = NOT ESTABLISHED

H: 2 F:3 R:0 PPE: H

PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: >500°F/260°C
MELTING POINT: N/A
SPECIFIC GRAVITY (H2O=1): 1.769
VAPOR PRESSURE (mm Hg): .03 @ 77°C
VAPOR DENSITY (Air=1): N/AP
APPEARANCE/ODOR: Rust Brown thick paste.
SOLUBILITY IN WATER: Insoluble
REACTIVITY IN WATER: Non reactive

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 480°F/250°C
METHOD USED: PMCC
EXPLOSION LEVEL-LOWER (LEL): N/A
UPPER (UEL): N/A
AUTO-IGNITION TEMPERATURE*: 250°C SADT*
EXTINGUISHER MEDIA: This material will not readily support combustion.
FIRE FIGHTING PROCEDURES: Use foam, dry chemical or CO₂. Fire-fighters should protect eyes and use self contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: At temperatures above 500°F, Aldehydes, acids and other organic substances may be formed. Vapors may be toxic.

*SELF ACCERATING DECOMPOSITION TEMPERATURE.

REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: None
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents. Mineral acids
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Aldehydes, and acids during combustion.
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Strong oxidizing agents. Lewis or mineral acids, mineral or organic bases especially Aliphatic Amines.

HEALTH HAZARDS

ACUTE: None (See chronic)
CHRONIC: Some eye or skin sensitization

SIGNS AND SYMPTOMS OF EXPOSURE: Very low reactivity, some reddening of eyes or skin rash (Hives).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Any existing skin or eye disorders.

CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN: NTP: No IARC: No OSHA: No

EMERGENCY AND FIRST AID PROCEDURES: Flush eyes for 15 minutes with water. Remove soiled clothing and wash skin with soap and water.

ROUTES OF ENTRY:

- INHALATION: Very Unlikely: resin has very low volatility.
- EYES: Unlikely: Flush with plenty of water, get medical attention.
- SKIN: Likely: Wash thoroughly with soap and water.
- INGESTION: Least Likely: Do not induce vomiting LD/50 11.4gm/kg (rat).

PRECAUTION FOR SAFE HANDLING AND USE

SPILLS OR LEAKS: Absorb with clay or sand and dispose in accordance with local regulations.

WASTE DISPOSAL: Best method is to catalyze and dispose of cured material.

STORAGE AND HANDLING: Store in a cool dry location with adequate ventilation.

OTHER PRECAUTIONS: Keep away from open flame or very hot environment, avoid contact with strong acids and bases.

CONTROL MEASURES

RESPIRATORY PROTECTION: Normally not required except during combustion of product.

VENTILATION: Local Exhaust: Yes
Mechanical (General): Yes
Special: None
Other: None

PROTECTIVE GEAR: Finger cots or impervious gloves. Safety glasses or face shield. Always use Niosh approved equipment.

WORK/HYGIENIC PRACTICES: Always wash skin thoroughly with soap and water before eating or smoking.

ECOLOGICAL INFORMATION:

ECOTOXICOLOGICAL INFORMATION: N/A

CHEMICAL FATE: N/A

TRANSPORT INFORMATION

N/A

REGULATORY INFORMATION

NOT APPLICABLE