

SUMMERS OPTICAL CAT#: 12800
SUMMERS PRODUCT: MILBOND TYPE I
PART B
DATE: 6/01/09
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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 B

HAZARD IDENTIFICATION

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

	OSHA PEL	ACGIH TLV	OTHER EXP LIMITS	% OPT	CAS#
Butadiene/Acrylonitrile Co-Polymer:				69.5	68683-29-4
Contains:					
Acrylonitrile:	2ppm	2ppm (skin)	N/A	<1ppm in product	
Butadiene:	1000ppm	10ppm	N/A	<7ppm in product	
Hydrogen Cyanide:	10ppm (skin)	10ppm (skin)	N/A	<5ppm in product	
N-Aminoethyl Piperazine:	N/E	N/E	N/A	<5% in product	
Versamid 140:	N/E	N/E	N/A	28.25	68410-23-1
DMP-30:	5ppm (skin)	5ppm (skin)	N/A	2.25	90-72-2

N/E = NOT ESTABLISHED

N/A = NOT APPLICABLE

PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: 130°F/160°C
MELTING POINT: N/E
SPECIFIC GRAVITY (H2O=1): .944
VAPOR PRESSURE (mm Hg): .01 @ 21°C
VAPOR DENSITY (Air=1): N/E
APPEARANCE/ODOR: Thick bluish-green/Amine odor
SOLUBILITY IN WATER: Insoluble
REACTIVITY IN WATER: Non Reactive

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 240°F/115°C
METHOD USED: 5CC
EXPLOSION LEVEL-LOWER (LEL): N/E
UPPER (UEL): N/E
AUTO-IGNITION TEMPERATURES: N/E
EXTINGUIDHER MEDIA: ABC Dry chemical foam
FIRE FIGHTING PROCEDURES: Firefighters should wear full protective clothing including self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Although this product does not easily support combustion, high temperatures can cause the emission of oxides of Nitrogen.

REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: High Temperatures >200°F
INCOMPATABILITY (MATERIALS TO AVOID): Strong oxidizers, i.e. Hydrogen Peroxide Permanganates and Perchlorate.
HAZARDOUS DECOMPOSITION PRODUCTS: Co, Co₂, Oxides of Nitrogen and Ammonia
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: See above information

HEALTH HAZARDS

ACUTE: Eye and Skin Irritation
CHRONIC: Skin rashes and upper respiratory irritation.
SIGN AND SYMPTOMS OF EXPOSURE: Reddening of skin or eyes.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing respiratory, skin or eye disorders may be aggravated.
CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN: NTP: No IARC: No OSHA: No
EMERGENCY AND FIRST AID PROCEDURES: Flush eyes with water for 10 minutes. Remove soiled clothing and wash. Wash skin thoroughly with soap and water. Induce vomiting and remove to fresh air.
ROUTE OF ENTRY:
INHALATION: Very Likely: remove to fresh air, assist breathing if necessary.
EYES: Not Likely: If proper eye protection is worn.
SKIN: Most Likely: Wash thoroughly with soap and water.
INGESTION: Least Likely: Induce vomiting. LD/50= 10.3gm/kg (Rat).

PRECAUTION FOR SAFE HANDLING AND USE

SPILLS OR LEAKS: Absorb with suitable absorbent (sand) and dispose of properly. Milbond is not considered a hazardous waste.
WASTE DISPOSAL: Best method is to catalyze and dispose of solid material.
STORAGE AND HANDLING: Store in a well ventilated area and do not process or mix without proper ventilation.
OTHER PRECAUTIONS: Keep away from heat and strong oxidizers

CONTROL MEASURES

RESPIRATORY PROTECTION: Niosh approved respirator if necessary
VENTILATION: Local Exhaust: Yes
Mechanical (General): Yes
Special: None
Other: None
PROTECTIVE GEAR: Rubber or plastic gloves. Safety glasses or face shield. Eye wash station. Plastic or rubber apron.
WORK/HYGIENIC PRACTICES: Always wash 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