

SUMMERS OPTICAL CAT#: 12400
SUMMERS PRODUCT: UV-69
DATE: 01/02/06
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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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24 Hour Emergency Phone #
Chemtrec: 800/424-9300

FOR PRODUCT AND SALES INFORMATION
CONTACT SUMMERS OPTICALS OFFICE ABOVE

PRODUCT IDENTIFICATION

PRODUCT NAME: Lens Bond Optical Cement Type UV-69

HAZARDOUS INGREDIENTS

*NOTE: All ingredients contained in Lens Bond UV-69 are listed on the TSCA Inventory.

	OSHA PEL	ACGIH TLV	OTHER EXP LIMITS	% OPT	CAS#
COMPONENTS					
1.*STYRENE MONOMER	50 PPM TWA 100 PPM STEL	50 PPM 100 PPM	TWA STEL	39-40	100-42-5
2. NON TOXIC POLYESTER RESIN	N/E	N/E		60-61	N/E

N/A= NOT APPLICABLE
N/E= NOT ESTABLISHED

* For hazard communication purposes under OSHA standard 29 CFR part 1910.1200, this chemical is listed as a potential carcinogen by IARC. Neither the data from various long-term animal studies nor from epidemiology of workers exposed to Styrene provide an adequate basis to conclude that Styrene is carcinogenic.

PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: 150°C/295°F
MELTING POINT: N/E
SPECIFIC GRAVITY: [H2O=1] 1.09
VAPOR PRESSURE: [mm Hg] 4.5 @ 20°C
VAPOR DENSITY: [Air=1] 3.6 volatiles by volume = 43.6%
APPEARANCE/ODOR: Clear, amber, burgundy or blue, liquid/
sweet odor
SOLUBILITY IN WATER: Insoluble
REACTIVITY IN WATER: Will not react

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 122°F/50°C
METHOD USED: Open Cup
EXPLOSION LEVEL-LOWER [LEL] 1.1%
UPPER [UEL] 6.1%
AUTO-IGNITION TEMPERATURE: 920°F/492°C
EXTINGUISHER MEDIA: Dry chemical, CO₂ Foam
EXTINGUISHERS NOT TO USE: Water
FIRE FIGHTING PROCEDURES: Evacuate area and fight fire from a distance
Wear positive breathing apparatus and eye
protection.
UNUSUAL FIRE AND EXPLOSION
HAZARDS: Heat can cause hazardous polymerization. In
closed containers this can cause violent
rupture.

REACTIVITY DATA

STABILITY: Unstable
CONDITIONS TO AVOID: Overheating and strong light
HAZARDOUS DECOMPOSITION/
BY PRODUCTS: Acid fumes, Carbon Monoxide, and Carbon Dioxide
HAZARDOUS POLYMERIZATION: May occur
CONDITIONS TO AVOID: Acids, oxidizing material, metallic halides
and overheating.

HEALTH HAZARDS

ACUTE: Moderate Tissue Irritant
CHRONIC: Nausea, C.N.S., Depression, General Weakness
SIGNS AND SYMPTOMS OF
EXPOSURE: Dizziness, drunkenness, skin rash, and nasal
irritation.
MEDICAL CONDITIONS GENERALLY
AGGRAVATED BY EXPOSURE: N/E, but those suffering from respiratory
ailments should avoid exposure as well as those
with CNS disorders.

CHEMICAL LISTED AS A CARCINOGEN
OR POTENTIAL CARCINOGEN:

NTP: N/A IARC: Yes OSHA: N/A

EMERGENCY AND FIRST AID
PROCEDURES:

Remove to fresh air and give oxygen, rinse eyes for 20-30 minutes, wash skin thoroughly with soap and water, but do not induce vomiting

ROUTES OF ENTRY:

INHALATION:

Most likely: Could cause irritation to respiratory tract.

EYES:

Less likely: Flush for 20-30 minutes seek medical attention.

SKIN:

Most likely: Minor skin irritation, wash thoroughly with soap and water.

INGESTION:

Least likely: Do not induce vomiting, seek medical attention. LD/50 500mg/kg.

WOUNDS:

Wash profusely with soap and water and seek medical attention.

PRECAUTION FOR SAFE HANDLING AND USE

SPIILLS OR LEAKS:

Absorb with vermiculite and dispose of in accordance with Federal, State and local laws

WASTE DISPOSAL:

Consult Federal, State and local regulations
Small quantities can be polymerized and disposed in municipal waste systems. Large quantities can be incinerated.

STORAGE AND HANDLING:

Keep away from high temperatures and strong light, keep away from spark or flame. Store in a well ventilated area.

CONTROL MEASURES

RESPIRATORY PROTECTION:
VENTILATION:

NIOSH approved respirator when TLV is exceeded.
Local Exhaust, Yes
Mechanical [General], Yes
Special, None

PROTECTIVE GEAR:

Safety Glasses or face shield. Neoprene apron and eyewash station.

WORK/HYGIENIC PRACTICES:

Remove soiled clothing and wash thoroughly. Always wash skin thoroughly.

ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: N/A

CHEMICAL FATE: N/A

TRANSPORT INFORMATION

DOT SHIPPING NAME: Adhesive
HAZARD CLASS: 3
PACKING GROUP: III
UN/NA NO: 1133
DOT LABELS: Flammable Liquid
SUBSIDIARY LABEL: None
DOT PLACARDS: 3, Flammable Liquid

IMO SHIPPING NAME: Adhesive
HAZARD CLASS: 3
PACKING GROUP: III
UN/NA NO: 1133
SUBSIDIARY LABELS: NONE

IATA SHIPPING NAME: Adhesive
HAZARD CLASS: 3
PACKING GROUP: III
UN/NO: 1133
IATA LABELS: Flammable Liquid
SUBSIDIARY LABELS: None

REGULATORY INFORMATION

NOT APPLICABLE