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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: MIRACURE UVA3045F
Product type: Coating
Company address: Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : / IDH No. 1014579
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
2-(2-Ethoxyethoxy)ethyl acrylate 7328-17-8	10-30	None	None	None
Acrylate oligomer Proprietary	10-30	None	None	None
Phenol polymer with 2,6,6-trimethylbicyclo[3.1.3]hept-2-ene 25359-84-6	10-30	None	None	None
Aliphatic urethane acrylate Proprietary	5-10	None	None	None
Acrylate ester Proprietary	5-10	None	None	None
Epoxy monoacrylate ester Proprietary	1-5	None	None	None
Aliphatic glycidyl ether Proprietary	1-5	None	None	None
Photoinitiator Proprietary	1-5	None	None	None
Metallic acrylate ester Proprietary	1-5	None	None	None
Acrylate esters Proprietary	1-5	None	None	None
Ethyl phenyl (2,4,4 trimethylbenzyl) phosphinate 84434-11-7	1-5	None	None	None
Phenyl glycidyl ether 122-60-1	0.1-1	0.1 ppm TWA (skin)	10 ppm TWA 60 mg/m ³ TWA	None

3. HAZARDS IDENTIFICATION

Item No. : / IDH No. 1014579

Product name: MIRACURE UVA3045F

EMERGENCY OVERVIEW

Physical state: Liquid
Color: Light yellow
Odor: Solvent

HMS:

HEALTH: 2*
FLAMMABILITY: 0
PHYSICAL HAZARD: 2
Personal Protection: See Section 8

WARNING: HARMFUL IF SWALLOWED.
MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
HAZARDOUS POLYMERIZATION MAY OCCUR UPON DEPLETION OF INHIBITOR.
CONTAINER MAY EXPLODE IF HEATED.

Relevant routes of exposure: Eye contact, Ingestion, Inhalation, Skin contact, Skin absorption

Potential Health Effects

Inhalation: May cause sensitization by inhalation. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air, or other irritants. May cause respiratory tract irritation.

Skin contact: May cause sensitization by skin contact. Once sensitized, an individual may react even to airborne levels below the TLV with the following symptoms: itching and tingling of the earlobes and neck, rash, hives, swelling of the arms and legs or other symptoms common to allergic dermatitis. May cause skin irritation with discomfort or rash. Symptoms may include redness, burning, drying, cracking and skin burns.

Eye contact: May cause severe eye irritation. May cause corneal injury.

Ingestion: Harmful if swallowed.

Existing conditions aggravated by exposure: Pre-existing skin or lung allergies may increase the chance of developing exaggerated allergic symptoms from exposure to this product.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Move to fresh air in case of accidental inhalation of vapours or decomposition products. If not breathing, give artificial respiration. Get medical attention immediately.

Skin contact: Remove contaminated clothing and shoes. Immediately flush skin with plenty of water (using soap, if available). Get medical attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.

Ingestion: Drink 1 or 2 glasses of water. Do not induce vomiting. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

Flash point: Not applicable

Autoignition temperature: Not determined

Flammable/Explosive limits-lower %: Not determined

Flammable/Explosive limits-upper %: Not determined

Extinguishing media: Use media appropriate for surrounding material.

Special fire fighting procedures: Keep unnecessary personnel away. Product generates significant heat while reacting. Reaction can not be stopped. Continuously monitor reaction. Protect exposures until reaction is complete. Explosive rupture is possible. Therefore, use cold water to cool fire-exposed containers.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. Isolate from heat, electrical equipment, sparks, and open flame. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

Hazardous combustion products: Oxides of carbon, oxides of nitrogen, irritating organic vapors.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Avoid subsoil penetration.
Clean-up methods:	Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.
Storage:	Store at or below 37.8°C (100°F). Avoid exposure to light. Keep in a cool, well ventilated area.
Incompatible products:	Strong acids or bases. Oxidizing agents. Copper alloy. Free radical initiators. Powdered metals.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.
Respiratory protection:	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. Observe OSHA regulations for respiratory use (29 CFR 1910.134).
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skin contact.
Eye/face protection:	Do not wear contact lenses when handling this product. Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Light yellow
Odor:	Solvent
Vapor pressure:	Not determined
pH:	Not applicable
Boiling point/range:	Not applicable
Melting point/range:	Not applicable
Specific gravity:	1.1 at 20 deg. C
Vapor density:	Not applicable
Evaporation rate:	Not applicable
Solubility in water:	Not determined
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Essentially Zero

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use. Polymerization may occur at elevated temperatures.
Hazardous polymerization:	May occur with excessive aging, excessive heat, polymerization catalyst, inhibitor depletion, direct sunlight and under oxygen-free atmospheres. Rapid polymerization may generate excessive heat and pressure. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.
Hazardous decomposition products:	Oxides of carbon. Smoke.
Incompatibility:	Oxidizing agents. Strong acids and strong bases. Copper alloys. Copper. Powdered metals. Metals. Free radical initiators.

Conditions to avoid:

Storage with incompatible materials. Avoid temperatures above 32 °C (90 °F). Extremes of temperature and direct sunlight. Heat, flames and sparks. Loss of polymerization inhibitor. Loss of dissolved air.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
2-(2-Ethoxyethoxy)ethyl acrylate 7328-17-8	No	No	No
Acrylate oligomer Proprietary	No	No	No
Phenol polymer with 2,6,6-trimethylbicyclo[3.1.3]hept-2-ene 25359-84-6	No	No	No
Aliphatic urethane acrylate Proprietary	No	No	No
Acrylate ester Proprietary	No	No	No
Epoxy monoacrylate ester Proprietary	No	No	No
Aliphatic glycidyl ether Proprietary	No	No	No
Photoinitiator Proprietary	No	No	No
Metallic acrylate ester Proprietary	No	No	No
Acrylate esters Proprietary	No	No	No
Ethyl phenyl (2,4,4 trimethylbenzyl) phosphinate 84434-11-7	No	No	No
Phenyl glycidyl ether 122-60-1	No	Group 2B	Yes

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
2-(2-Ethoxyethoxy)ethyl acrylate 7328-17-8	Allergen, Irritant
Acrylate oligomer Proprietary	No data
Phenol polymer with 2,6,6-trimethylbicyclo[3.1.3]hept-2-ene 25359-84-6	No Records
Aliphatic urethane acrylate Proprietary	No data
Acrylate ester Proprietary	Allergen, Irritant
Epoxy monoacrylate ester Proprietary	No data
Aliphatic glycidyl ether Proprietary	No data
Photoinitiator Proprietary	No Target Organs
Metallic acrylate ester Proprietary	No data
Acrylate esters Proprietary	No data
Ethyl phenyl (2,4,4 trimethylbenzyl) phosphinate 84434-11-7	No data
Phenyl glycidyl ether 122-60-1	Allergen, Central nervous system, Irritant, Respiratory, Blood, Immune system, Bone Marrow, Reproductive, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

EPA hazardous waste number: Waste must be tested to determine the applicable EPA hazardous waste numbers.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification:	None.
CERCLA/SARA Section 302 EHS:	None above reporting de minimus.
CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard, Reactive
CERCLA/SARA 313:	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Acrylate ester (CAS# 48145-04-6). 2-(2-Ethoxyethoxy)ethyl acrylate (CAS# 7328-17-8).
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:	Contains one or more components listed on the Non-Domestic Substances list. All other components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class:	D.2.A, D.2.B, F

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Jennifer Altman, Sr. Regulatory Affairs Specialist
Telephone: (248) 589-4624
e-mail: jennifer.altman@us.henkel.com

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