

# Material Safety Data Sheet



Revision Number: 001.0

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## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b>	MIRACURE UVG1096DW	<b>IDH number:</b>	1423508
<b>Product type:</b>	Coating	<b>Region:</b>	United States
<b>Company address:</b>	<b>Contact information:</b>		
Henkel Corporation	Telephone: 860.571.5100		
One Henkel Way	Emergency telephone: 860.571.5100		
Rocky Hill, Connecticut 06067	Internet: www.henkelna.com		

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b>	Liquid	<b>HEALTH:</b>	*2
<b>Color:</b>	Translucent, Light yellow	<b>FLAMMABILITY:</b>	0
<b>Odor:</b>	Acrylate	<b>PHYSICAL HAZARD:</b>	2
		<b>Personal Protection:</b>	See MSDS Section 8

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

**Relevant routes of exposure:** Eye contact, Lungs, Ingestion, Skin, Skin absorption

### Potential Health Effects

<b>Inhalation:</b>	May cause respiratory tract irritation. May cause allergic respiratory reaction. 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.
<b>Skin contact:</b>	May cause skin irritation with discomfort or rash. May cause allergic skin reaction. 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. Symptoms may include redness, burning, drying, cracking and skin burns.
<b>Eye contact:</b>	May cause severe eye irritation. May cause corneal injury.
<b>Ingestion:</b>	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.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Acrylated epoxy	Proprietary	10 - 30
Trimethylolpropane triacrylate	15625-89-5	10 - 30
Diacrylate ester	Proprietary	10 - 30
Triacrylate ester	Proprietary	5 - 10
Benzophenone	119-61-9	5 - 10
Acrylated amine	Proprietary	5 - 10

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.
<b>Skin contact:</b>	Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. Get immediate medical attention.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.

### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	Not applicable
<b>Autoignition temperature:</b>	Not determined
<b>Flammable/Explosive limits - lower:</b>	Not determined
<b>Flammable/Explosive limits - upper:</b>	Not determined
<b>Extinguishing media:</b>	Use media appropriate for surrounding material.
<b>Special firefighting procedures:</b>	Isolate area. Keep unnecessary personnel away. Use water spray to keep fire exposed containers cool and disperse vapors.
<b>Unusual fire or explosion hazards:</b>	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.
<b>Hazardous combustion products:</b>	Oxides of carbon, oxides of nitrogen, irritating organic vapors.

### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not allow product to enter sewer or waterways.

**Clean-up methods:** Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Dispose of contaminated material as waste according to item 13.

## 7. HANDLING AND STORAGE

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.

**Storage:** For safe storage, store between 4 °C (39.2 °F) and 32 °C (89.6 °F) Protect from direct sunlight. Mix well before using. Store in a cool, dry, well-ventilated area. Store away from strong oxidizers.

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Acrylated epoxy	None	None	None	None
Trimethylolpropane triacrylate	None	None	1 mg/m <sup>3</sup> TWA (SKIN)	None
Diacrylate ester	None	None	None	None
Triacrylate ester	None	None	None	None
Benzophenone	None	None	0.5 mg/m <sup>3</sup> TWA	None
Acrylated amine	None	None	None	None

**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 NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respiratory use (29 CFR 1910.134).

**Eye/face protection:** Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

**Skin protection:** Use impermeable gloves and protective clothing as necessary to prevent skin contact. Wear suitable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Translucent, Light yellow
<b>Odor:</b>	Acrylate
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not applicable
<b>Vapor pressure:</b>	Not determined
<b>Boiling point/range:</b>	Not applicable
<b>Melting point/ range:</b>	Not applicable
<b>Vapor density:</b>	Not determined
<b>Flash point:</b>	Not applicable
<b>Flammable/Explosive limits - lower:</b>	Not determined
<b>Flammable/Explosive limits - upper:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not determined
<b>Solubility in water:</b>	Not soluble
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>VOC content:</b>	Not tested
<b>Viscosity:</b>	200 - 325 mPa.s

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Hazardous reactions:</b>	Rapid polymerization may generate excessive heat and pressure. May occur with excessive aging, excessive heat, polymerization catalyst, inhibitor depletion, direct sunlight and under oxygen-free atmospheres. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Smoke.
<b>Incompatible materials:</b>	Copper Oxidizing agents. Copper alloys. Powdered metals. Metals. Free radical initiators. Strong acids and strong bases.
<b>Conditions to avoid:</b>	Avoid temperatures above 46°C (115°F). Loss of dissolved air. Loss of polymerization inhibitor. Heat, flames, sparks and other sources of ignition. Extremes of temperature and direct sunlight. Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Acrylated epoxy	No	No	No
Trimethylolpropane triacrylate	No	No	No
Diacrylate ester	No	No	No
Triacrylate ester	No	No	No
Benzophenone	No	No	No
Acrylated amine	No	No	No

Hazardous components	Health Effects/Target Organs
Acrylated epoxy	Irritant, Allergen
Trimethylolpropane triacrylate	Irritant, Allergen
Diacrylate ester	Irritant, Allergen, Eyes
Triacrylate ester	Allergen, Irritant
Benzophenone	Blood, Kidney
Acrylated amine	No Data

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable federal, state and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product.

**Hazardous waste number:** Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

## 14. TRANSPORT INFORMATION

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

<b>Proper shipping name:</b>	Not regulated
<b>Hazard class or division:</b>	None
<b>Identification number:</b>	None
<b>Packing group:</b>	None

**International Air Transportation (ICAO/IATA)**

**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s. (Benzophenone)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzophenone)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III  
**Marine pollutant:** Benzophenone  
**Exceptions:** Classified per IMDG Amendment 34; Effective Jan 1, 2010.

**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 above reporting de minimus  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimus  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health, Reactive  
**CERCLA/SARA 313:** None above reporting de minimus  
**California Proposition 65:** This product contains a chemical known to the State of California to cause 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. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.  
**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:** First issue.

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