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H.M.I.S.
 HEALTH 2
 FLAMMABILITY 1
 REACTIVITY 2
 These ratings should be used only
 as part of full implemented
 H.M.I.S. program.

M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1 - PRODUCT INFORMATION

DATE OF PREPARATION 8/23/06

TRADE NAME..... **MIRACURE G. I. D.** PHYSICAL FORM: **100% NV - LIQUID**
 MANUFACTURER CODE I.D. **UVS100V** (**Formerly a Sovereign Specialty Chemical Inc Product**)

SECTION 2 - HAZARDOUS INGREDIENTS/COMPOSITION INFORMATION

INGREDIENT	% BY WGT	CAS NO.	ALLOWABLE	SARA	VP
			EXPOSURE LEVEL	313	mm Hg @ 20 DEG.C
			PPM MG/CU.M.	SKIN	
ACRYLATE ESTER OF BISPHENOL-A-EPOXY		TSRN9041M01	NONE ESTABLISHED		
MULTIFUNCTIONAL ACRYLATE		TSRN9051M01 MFR	1	SKIN	
ACRYLATE OLIGOMER		TSRNHM2490 MFR	1	SKIN	
BENZOPHENONE		119-61-9	NONE ESTABLISHED		
KETONE TYPE PHOTO-INITIATOR		TSRN9081M01 MFR	1		
POLYESTER ACRYLATE		TSRN2222R01 MFR	1	SKIN	
AMINE SYNERGIST		TSRN4234M01	NONE ESTABLISHED		
PHOTO INITIATOR		TSRN9114M01	NONE ESTABLISHED		

SKIN = SKIN ABSORPTION MUST BE CONSIDERED AS A ROUTE OF EXPOSURE
 C-CEILING= ALLOW. EXPOSURE LEVEL SHOULD NOT BE EXCEEDED FOR ANY TIME PERIOD
 MFR = MANUFACTURER RECOMMENDED EXPOSURE LIMIT
 STEL = SHORT TERM EXPOSURE LIMIT
 X-SARA 313 = CHEMICAL IS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313
 OF TITLE III OF S.A.R.A. 40 CFR PART 372

SECTION 3 - HAZARDS IDENTIFICATION

EFFECTS OF SHORT TERM OVEREXPOSURE
 SWALLOWING
 Harmful if swallowed.
 INHALATION
 May cause respiratory sensitization (potential for allergic reaction).
 May cause respiratory irritation.
 EYE
 May cause severe eye irritation and corneal damage.
 SKIN
 May cause skin sensitization (allergic reaction).

SECTION 3 - HAZARDS IDENTIFICATION (Continued)

SKIN

The supplier of the Acrylate Oligomer reports limited evidence of mutagenicity in test tube studies. Limited tests showed no evidence of teratogenicity in animals.

May cause skin irritation.

EFFECTS OF REPEATED OVEREXPOSURE

May lead to skin sensitization.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH.

The supplier of the multifunctional acrylate contained in this product has reported limited evidence of mutagenicity in " test tube " studies involving animal tissue (mouse lymphoma). Other mutagenicity studies involving bacteria (Ames Test) and yeast (D4) were negative. A relationship between these studies and humans has not been established. Other animal studies provided no evidence of this multifunctional acrylate exhibiting teratogenicity (birth defects) or carcinogenicity.

SECTION 4 - FIRST-AID MEASURES

SWALLOWING

If swallowed do not induce vomiting. Give 1 or 2 glasses of water to dilute (Never give anything by mouth to an unconscious person). Call the Poison Control Center , Hospital Emergency Room, or Physician immediately.

INHALATION

Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep warm and quiet. Get medical attention immediately.

EYE

Flush with large amounts of water, lifting upper and lower lids occasionally. Continue for at least 15 minutes. Get medical attention immediately.

SKIN

Remove contaminated clothing, use waterless skin cleaner followed by soap and water wash. Obtain medical attention if irritation persists.

Remove contaminated clothing. Wash affected area with soap and water.

Obtain medical attention if irritation persists.

NOTES TO PHYSICIAN

Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

SECTION 5 - FIRE-FIGHTING MEASURES

NFPA FLAMMABILITY CLASSIFICATION COMBUSTIBLE LIQUID - CLASS IIIB

FLASHPOINT 220 DEG.F,SFCC (104 DEG.C,)

EXTINGUISHING MEDIA

Use NFPA Class B Fire extinguishers (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS

During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters should wear self-contained breathing apparatus.

Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Refer to Section 8 and don respirators, eye, hand, and body protection appropriate for the size of the spill and the exposures encountered.

WASTE DISPOSAL

Dispose in accordance with federal, state and local regulations.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (Continued)

ENVIRONMENTAL HAZARDS
None known

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Avoid contact. Refer to Section 8 for exposure control.

OTHER PRECAUTIONS

Do not take internally. Close container after each use. Avoid skin contact.
Keep away from children.
Avoid skin contact.
Containers should be grounded and bonded to the receiving container.
Do not weld, braze or cut on empty container.
Never use pressure to empty. Drum is not a pressure vessel.

SECTION 8 - EXPOSURE CONTROLS

RESPIRATORY PROTECTION

Proper selection of respiratory protection depends upon many factors including duration and level of exposure and conditions of use. In general exposure to organic chemicals such as those contained in this product may not require the use of respiratory protection if used in well ventilated areas. In areas of restricted ventilation a NIOSH approved organic vapor respirator may be required. Under certain conditions, such as spraying, a mechanical prefilter may also be required. In confined areas or in high exposure situations a NIOSH/MSHA approved air supplied respirator may be required. If the TLV's or PEL's listed in Section II are exceeded use a properly fitted NIOSH/MSHA approved respirator with an appropriate protection factor. Refer to OSHA 29 CFR 1910.134 "Respiratory Protection", and "Respiratory Protection a Manual and Guideline, American Industrial Hygiene Association".

VENTILATION

Provide general dilution and local exhaust ventilation in sufficient volume and pattern to keep concentrations of hazardous ingredients listed in Section II below the lowest exposure limit stated. Remove decomposition products that are generated when welding, cutting, or brazing objects coated with this product. Refer to "Industrial Ventilation - A Manual of Recommended Practice " ACGIH .

HAND PROTECTION

Wear appropriate impermeable gloves.

EYE PROTECTION

Wear safety glasses meeting the specifications of ANSI Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specifications of ANSI Z87.1 should be worn whenever there is a possibility of splashing or other contact with the eyes.

OTHER PROTECTIVE EQUIPMENT

Eyewash facility, safety shower.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE 200 DEG.F. (93 DEG.C.)

VAPOR DENSITY Heavier than air. **% VOLATILE BY VOLUME** 1

EVAPORATION RATE **VOC** .08 lb/gal less water& NPRS* 10 g/l less water CALCULATED
Slower than diethyl ether.

WEIGHT LB./GAL. 11.6 **VOC** .08 lb/gal solids 10 g/l solids CALCULATED
SPECIFIC GRAVITY 1.4

All Physical data determined at 68 DEG. F. (20 DEG. C.) 760 mm Hg

* Negligibly Photochemically Reactive Materials

SECTION 10 - STABILITY AND REACTIVITY

STABILITY

Normally stable. Polymerization resulting in the rapid evolution of heat

SECTION 10 - STABILITY AND REACTIVITY (Continued)

STABILITY

may result from exposure to high temperatures.
This material is normally stable, However, inhibitor depletion, exposure to heat, radiation (including sunlight), impurities, and oxidizers may initiate hazardous polymerization. The resulting heat and pressure may cause containers to rupture or explode. Maintain an airspace within storage containers. The preferred storage temperature is 68-72 deg.F (20-22 deg. C). This material should be transferred in lines made of stainless steel or aluminium. All piping and pumps should also be stainless steel. Avoid the use of iron, copper or their alloys which may result in hazardous polymerization or color degradation. Solvent resistant plastics, such as Tygon may be used. The tubing should be opaque to avoid curing in the lines. Pumps should be low shear, such as centrifugal, peristaltic, diaphragm, or low shear progressive cavity pumps. The use of high shear pumps (gear or piston) should be avoided. Clear pumps and lines with compressed air after transfer.

CONDITIONS TO AVOID

Avoid excessive heat (>115 F (46 C) and sources of ignition.
Avoid storage above 90 F, exposure, to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong acids or alkaline materials.
Metal powders, carbides, sulfides, strong bases, and organic chemicals.
Oxidizing materials.
Free radical initiators.
Copper and copper alloys.
Metals.

HAZARDOUS DECOMPOSITION PRODUCTS

Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION

May occur

CONDITIONS TO AVOID

None known

SECTION 11 - TOXICOLOGICAL INFORMATION

No information available.

SECTION 12 - ECOLOGICAL INFORMATION

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

See Section 6.

SECTION 14 - TRANSPORT INFORMATION

ITEM:	UVS100V	DESC/SIZE: MIRACURE G. I. D.
MODE	PROPER SHIPPING NAME	CLASS I.D.# PKG GRP
IATA		
(AIR)	PAINT, NOT RESTRICTED	
DOT (HM-181)		
(DOMESTIC SURFACE)	PAINT, NOT REGULATED	
IMDG CODE		
(OCEAN)	PAINT, NOT REGULATED	

NOTE! The assignment of Proper Shipping Names is in part a function of the size of the product container and the transport mode. For example, the Proper Shipping Name for a bulk container can differ significantly from the

SECTION 14 - TRANSPORT INFORMATION (Continued)

Proper Shipping Name for the same product packaged in a non-bulk container. This can also be true for products shipped via different modes of transportation (i.e. ground, air, ocean). The descriptions provided above are intended to provide some guidance. However, these descriptions may not apply to your package size or mode of shipment.

The U.S. Code of Federal Regulations, 49 CFR - Transportation, regulations, and the policies established by some transporters, require that the shipper properly classify and assign a Proper Shipping Name, and label, mark and package the material properly. Therefore, the user of this information is cautioned to consult with applicable regulations, and with qualified advisors prior to the repackaging and or reshipment of this or other any product which contain this product.

SECTION 15 - REGULATORY INFORMATION

All ingredients in this product are listed on the US TSCA Inventory.

INGREDIENT	CAS NO.	DETAIL INVENTORY LIST INFORMATION
ACRYLATE ESTER OF BISPHENOL-A-EPOXY	TSRN9041M01	DSL
MULTIFUNCTIONAL ACRYLATE	TSRN9051M01	TSCA(8a PAIR) TSCA(8d) TSCA(8d term) DSL
ACRYLATE OLIGOMER	TSRNHM2490	No information available.
BENZOPHENONE	119-61-9	DSL
KETONE TYPE PHOTO-INITIATOR	TSRN9081M01	DSL
POLYESTER ACRYLATE	TSRN2222R01	No information available.
AMINE SYNERGIST	TSRN4234M01	DSL
PHOTO INITIATOR	TSRN9114M01	No information available.

DETAIL INVENTORY LIST DESCRIPTION

TSCA/Toxic Substances Control Act
(8a PAIR)Preliminary Assesment Information Rules
(8d)Health and Safety Reporting Rules
(8d term)Health and Safety Reporting Rules termination
DSL/Canadian Domestic Substance List

SECTION 16 - OTHER INFORMATION

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including

SECTION 16 - OTHER INFORMATION (Continued)

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