

Henkel Corporation  
 710 Ohio Street  
 Buffalo, NY 14240  
 DOT EMERGENCY (860)571-5100  
 INFORMATION PHONE NO. 800-888-4910 M-F 7:30 AM 5:30 PM

H.M.I.S.  
 HEALTH 3\*  
 FLAMMABILITY 0  
 REACTIVITY 1  
 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 12/14/05

TRADE NAME..... **FLOORING URETHANE**                      PHYSICAL FORM: **100% NV - LIQUID**  
 MANUFACTURER CODE I.D. **SS176**

**SECTION 2 - HAZARDOUS INGREDIENTS/COMPOSITION INFORMATION**

INGREDIENT	% BY WGT	CAS NO.	ALLOWABLE EXPOSURE LEVEL		SARA 313	VP mm Hg @ 20 DEG.C
			PPM	MG/CU.M.	SKIN	
DIPHENYLMETHANE DI-ISOCYANATE OLIGOMERS	10	9016-87-9	MFR	0.0200 0.2000		X
POLYURETHANE PREPOLYMER		TSRNM2801		NONE ESTABLISHED		
4,4'-(OXYDI-2,1-ETHA NEDIYL)BISMORPHOLINE		6425-39-4		NONE ESTABLISHED		
FILLER		TSRN1827M01	TLV-TWA OSHA-PEL	2 5		
CHEMICAL INTERMEDIATE		TSRN9024M01		NONE ESTABLISHED		
ADDITIVE		TSRN9415P01	TLV-TWA OSHA-PEL	2 2	RESP	

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**

May be fatal if swallowed.  
 Can cause gastrointestinal irritation, nausea, and vomiting. Aspiration of material into lung may cause chemical pneumonitis which can be fatal.

**INHALATION**

WARNING vapor and spray mist harmful. Overexposure may cause lung damage.  
 May cause lung irritation and allergic respiratory reaction. Effects may be permanent.  
 May cause respiratory sensitization (potential for allergic reaction).  
 May cause respiratory irritation.

**EYE**

May cause severe eye irritation.

### SECTION 3 - HAZARDS IDENTIFICATION (Continued)

#### SKIN

Primary skin irritant.  
May cause skin sensitization (allergic reaction).  
May cause severe burns unless washed off immediately.

#### EFFECTS OF REPEATED OVEREXPOSURE

Repeated exposure to isocyanates may result in respiratory sensitization in some individuals. Respiratory sensitivity results in asthma-like symptoms on subsequent exposure at concentrations even below the TLV.

#### SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH.

The supplier reports that ingestion of diisodecyl phthalate "...can cause reproductive effects at high doses."

### SECTION 4 - FIRST-AID MEASURES

#### SWALLOWING

If swallowed call 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.

#### SKIN

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 Not Applicable

FLASHPOINT Not applicable

#### 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.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

#### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

The use of a NIOSH/MSHA approved, TC19C, air-supplied breathing apparatus may be required. Consult with a qualified occupational health and /or safety professional.

Contain spill, cover liquid with inert absorbent material. Place in open container. Remove to a well ventilated area. Treat with dilute ammonia solution (8%).(Heat may be liberated). Ventilate for 24hrs. Dispose of properly.

Wear 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.

#### ENVIRONMENTAL HAZARDS

None known

### SECTION 7 - HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Prolonged heating over 160 F (71 C) or storage below 75 deg. F should be

## SECTION 7 - HANDLING AND STORAGE (Continued)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
avoided.

Protect from moisture contamination which may cause an exothermic generation of carbon dioxide and a dangerous pressure buildup.

### OTHER PRECAUTIONS

Do not take internally. Close container after each use.

This product should not be used by persons who have had chronic (long term) breathing problems or reactions to isocyanates. Do not breathe vapor spray or mist. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Keep away from heat sparks or flame. Use only with adequate ventilation.

Wash hands and face thoroughly before eating or drinking.

Empty containers must not be washed and re-used for any purpose.

Never use pressure to empty. Drum is not a pressure vessel.

## SECTION 8 - EXPOSURE CONTROLS

### RESPIRATORY PROTECTION

The absence of heat or aerosol generation reduces the likelihood of the need for respiratory protection. Since conditions of use vary, it is the responsibility of each user of this product to evaluate potential exposures within their facility. If such conditions indicate the need for respiratory protection, proper selection depends upon many factors including duration and level of exposure and conditions of use. In general, exposure to the substances listed in Section II of this MSDS may not require the use of respiratory protection if exposures are maintained below recommended exposure limits. This can be accomplished by the use of engineering controls. One example of such controls would be the use of NIOSH approved respirator with an appropriate protection factor should be provided. If exposures are determined to be excessive, or if the use of respirators is desired a positive pressure supplied air respirator will provide adequate protection. The use of air purifying respirators may also be suitable in some situations. Please refer to the American Industrial Hygiene Association Journal J. 47(7):393-398 (1986). Consult a qualified occupational health and safety professional regarding conditions of use within your facility. 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

Butyl rubber.

Nitrile Gloves.

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.

As required to prevent skin contact.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**BOILING RANGE** 493 DEG.F. ( 256 DEG.C.)

**VAPOR DENSITY** Not applicable.      **% VOLATILE BY VOLUME**      0

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (Continued)**

<b>EVAPORATION RATE</b> Not applicable.	<b>VOC</b>	.00 lb/gal less water& NPRS*	0 g/l less water	CALCULATED
<b>WEIGHT LB./GAL.</b> 10.6	<b>VOC</b>	.00 lb/gal solids	0 g/l solids	CALCULATED
<b>SPECIFIC GRAVITY</b> 1.3				

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.  
**CONDITIONS TO AVOID**  
None known  
**INCOMPATIBILITY (MATERIALS TO AVOID)**  
Water  
**HAZARDOUS DECOMPOSITION PRODUCTS**  
Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide. In addition, oxides of nitrogen, hydrogen cyanide, may be generated.  
The reaction of isocyanates with water may produce carbon dioxide gas which may result in container pressurization.  
**HAZARDOUS POLYMERIZATION**  
Will not occur  
**CONDITIONS TO AVOID**  
Avoid high temperatures and high humidity.

**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**

<b>ITEM: SS176</b>	<b>DESC/SIZE: FLOORING URETHANE</b>			
<b>MODE</b>	<b>PROPER SHIPPING NAME</b>	<b>CLASS</b>	<b>I.D.#</b>	<b>PKG GRP</b>
IATA				
(AIR)	ADHESIVES, NOT REGULATED			
DOT (HM-181)				
(DOMESTIC SURFACE)	ADHESIVES, NOT REGULATED			
IMDG CODE				
(OCEAN)	ADHESIVES, 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 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

**SECTION 14 - TRANSPORT INFORMATION (Continued)**

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
DIPHENYLMETHANE DI-ISOCYANATE OLIGOMERS	9016-87-9	TSCA(8d) TSCA(8d term) DSL
POLYURETHANE PREPOLYMER	TSRNHM2801	No information available.
4,4'-(OXYDI-2,1-ETHANEDIYL)BISMORPHOLINE	6425-39-4	DSL
FILLER	TSRN1827M01	DSL
CHEMICAL INTERMEDIATE	TSRN9024M01	TSCA(12b) TSCA(4) DSL
ADDITIVE	TSRN9415P01	TSCA DSL

DETAIL INVENTORY LIST DESCRIPTION

TSCA/Toxic Substances Control Act  
(12b)Notices of Export  
(4)Test 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 warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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For Safety and Regulatory Information contact:  
Product Safety and Regulatory Affairs,  
Rocky Hill, CT

SECTION 16 - OTHER INFORMATION (Continued)

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