



## MATERIAL SAFETY DATA SHEET

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### 1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES  
 24 Hour INFOTRAC (US and CANADA): 800-535-5053

**PRODUCT NAME**  
 UNITED 198 PERMA-FLEX

**USE/DESCRIPTION**  
 Sealant and Adhesive

**REVISION DATE**  
 May 25, 2011

#### HMIS III HEALTH (0 = Maximum Safety) 1

Always follow Label Directions and Cautions.

\* Chronic 2 Moderate  
 4 Severe 1 Slight  
 3 Serious 0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

#### PHYSICAL HAZARD (0 = Maximum Safety) 0

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire. 2 Violent chemical change possible-use hose stream from distance  
 3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers. 1 Unstable if heated-use precaution.  
 0 Normally stable.

#### FLAMMABILITY (0 = Maximum Safety) 1

Susceptibility of Material to Burning.

4 Extremely flammable. 1 Must be preheated  
 3 Ignites at normal temperature. to burn.  
 2 Ignites when moderately heated. 0 Will not burn.

**PERSONAL PROTECTION: B**



### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	ACGIH (STEL)	LD50 (Species/Route)
Amorphous Silica	7631-86-9	7 – 13	10 mg/m3	6 mg/m3	NE	NE
Hydrotreated middle petroleum Distillates	64742-46-7	<= 7	5 mg/m3 Oil mists	5 mg/m3 Oil mists	NE	NE
Methyltriacetoxysilane *	4253-34-3	1 – 5	NE	10ppm	15 ppm	NE
Ethyltriacetoxysilane *	17689-77-9	1 – 5	NE	10ppm	15 ppm	NE

\*Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of SHA PEL: TWA 10 ppm, STEL 15 ppm.

### 3. HAZARDS IDENTIFICATION

**Eyes:** Uncured product contact irritates eyes. Contact lens wearers must not handle lens until all sealant has been cleaned from finger tips.

**Skin:** Uncured product may irritate skin.

**Inhalation:** May cause mild respiratory irritation.

**Ingestion:** May cause gastric distress.

### 4. FIRST AID MEASURES

**Eyes:** Flush with plenty of water for 15 minutes and call a physician or poison center immediately.

**Skin:** Remove completely with a dry cloth or paper towel before washing with detergent and water. If irritation persists, call a physician or poison center.

**Inhalation:** Remove to fresh air. If irritation persists, call a physician or poison center.

**If Swallowed:** Call a physician or poison center immediately.

### 5. FIRE FIGHTING MEASURES

**Flash Point (TCC):** >212°F/>100°C

**Explosive Limits:** Lower (LEL): ND Upper (UEL): ND

**Flame Projection (Aerosol):** Flammable per 16 CFR 1500.45

**Hazardous Products of Combustion:** When strongly heated, as in a fire, this product may produce oxides of sulfur, carbon dioxide, silicon dioxide, iodine compounds, and formaldehyde.

**Fire and Explosion Hazards:** Use water fog or spray to keep cans cool. Overheating may cause them to rupture, increasing the fires hazard.

**Extinguishing Media:** Water fog, Carbon dioxide, Dry chemical, Foam.

**Fire Fighting Instructions:** Wear self-contained breathing apparatus w/full protective clothing. Containers should be cooled with water to prevent vapor pressure build up.

## 6. ACCIDENTAL RELEASE MEASURES

**Small Spills:** Wipe or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slip hazard.

**Large Spills:** Wipe or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slip hazard.

## 7. HANDLING AND STORAGE

Keep this product tightly closed in a cool, dry, place away from children. Wash hands and face with soap and water after using this product. Product releases acetic acid during application and curing. Use in a well-ventilated area to prevent irritation by vapors. Long sleeves and long pants are suggested.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Safety glasses are recommended.

**Skin:** Cloth gloves are recommended.

**Respiratory:** Not normally needed in well-ventilated area. If TLV is exceeded, use a NIOSH/MSHA approved self-contained breathing apparatus respirator.

**Engineering Controls:** Provide adequate ventilation and local exhaust generally adequate.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** NA      **Specific Gravity:** 1.007 @ 77°F/25°C      **Vapor Pressure:** NA      **Melting Point:** ND

**Vapor Density:** NA      **Evaporation Rate:** ND      **Solubility in Water:** Negligible      **pH:** NA

**Appearance and Odor:** Gel that cures to a synthetic rubber with acetic acid odor available in black, clear, red or white.

## 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition:** When strongly heated, as in a fire, this product may produce sulfur oxides, carbon oxides, silicon dioxide, iodine compounds, and formaldehyde.

**Chemical Stability:** Stable

**Incompatibility:** Avoid oxidizing materials. Air or moisture causes curing which results in the formation of acetic acid vapors. Air or moisture causes curing and acetic acid vapors to form.

## 11. TOXICOLOGICAL INFORMATION

**Carcinogenicity (NTP/IARC/OSHA):** None

**California Proposition 65:** Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

## 12. ECOLOGICAL INFORMATION

ND

## 13. DISPOSAL CONSIDERATIONS

Consult your local, state, provincial and federal regulations for proper disposal guidelines. Do not puncture or incinerate containers.

Disposal regulations may be different for each state and/or locality. Aerosol cans when vented to atmospheric pressure through normal use pose no disposal hazard.

## 14. TRANSPORT INFORMATION

**DOT:** Available upon request

**TDG:** Available upon request

**UN:** Available upon request

## 15. REGULATORY INFORMATION

**VOC (Volatile Organic Compounds):** <4%

**TSCA (Toxic Substances Control Act):** Listed

**SARA Title III Section 302 EHS:** ND

**SARA Title III Section 311/312:** ND

**SARA Title III Section 313 Toxic Chemicals:** None

**WHMIS Classification:**

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

UNITED 198 PERMA-FLEX

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