MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: 600 SILICONE SEALANT

Supplier: American Sealants, Inc.
P.O. Box 80307
Fort Wayne, IN 46818

Phone: (260) 489-0728
Fax: (260) 489-0519
Emergency: (800) 535-5053
Revision date: 01/16/06
Reviewed: 12/01/10

Chemical Family/Use: Silicone Rubber
Formula: Mixture

SECTION 2. C0MPOSITION/INFORMATION ON INGREDIENTS

Product Composition/ CAS. Reg. No.	Approx. Wgt. %	TWA	ACGIH TLV STEL	ACGIH TLV TWA	OSHA PEL STEL	OSHA PEL TWA	Units
A. Hazardous							
Methyltriacetoxysilane							
4253-34-3	1-5		10(R)	NE	10(R)	NE	PPM
Octamethylcyclotetrasiloxane							
556-67-2	1-5		5 ppm	NE	GE REC	NE	GUIDE
B. Non-hazardous							
Silanol/STPD Siloxane W/ME SILSQXNS							
68554-67-6	5-10		NF	NE	NF	NE	NA
Tetramer Treated Fumed Silica							
68583-49-3	10-30		10	NE	15	NE	MG/M3
Dimethyl Polysiloxane Silanol/ST							
70131-67-8	60-80		NA	NE	NA	NE	NA
Red Iron Oxide							
1309-37-1	1-5		5	NE	10	NE	MG/M3

See Section 15 for description of any WHMIS Trade Secret(s)

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview:

This section not in use

Potential Health Effects:

Ingestion: Irritation of the mouth, throat, and stomach

Skin Contact: Uncured product contact will irritate lips, gums and tongue
Uncured product contact may irritate the skin

Inhalation: Causes mild respiratory irritation

Eye Contact: Uncured product contact irritation.

Medical Conditions Aggravated: None Known

Subchronic (Target Organ) Effects: Reproductive Disorders. May cause liver effects

Chronic Effects/Carcinogenicity: This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

Products/Ingredients: This space reserved for special use

Principle routes of exposure: Eyes, Inhalation

Other: Acetic Acid released during curing.

Octamethylcyclotetrasiloxane

Ingestion: Rodents give large dose via oral gavage of octamethylcyclotetrasiloxane (1600 mg/kg day, 14 days) developed increased liver weight relative to unexposed

control animals due to hepatocellular hyperplasia (increased number of liver cells which appeared normal) as well as hypertrophy (increased cell size).

Inhalation: In inhalation studies, laboratory rodents exposed to octamethylcyclotetrasiloxane (300 ppm five days week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells id not show any evidence of pathology. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects of liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents.

Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation). With octamethylcyclotetrasiloxane (D4). Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found.

Interim results from a two generation reproductive study in rats exposed to 500 and 700 ppm D4 (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation) resulted in a statically significant decrease in live mean litter size as well as extended periods of off spring delivery (dystocia). These results were not observed at the 70 and 300 ppm dosing levels.

The relevance of these data to humans in unclear. Further studies are ongoing.

This product contains Methylpolysiloxanes which can generate Formaldehyde at approximately 300ºF (150ºC) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

SECTION 4. FIRST AID MEASURES

Ingestion: None Known

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Skin: To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water.

Inhalation: Remove to fresh air.

Note to Physician: None known

SECTION 5. FIRE FIGHTING MEASURES

Flash Point (Method Used):	NA	(C) NA	(F) NA
Method:	NA		
Ignition Temp	UNK	(C) UNK	(F) UNK
Flammability Limits in air:	**Lower (%):** NA	**Upper(%):** NA	
Sensitivity to Mechanical Impact (Y/N):	No		
Sensitivity to Static Discharge:	Sensitivity to static discharge is not expected		
Extinguishing Media:	All standard firefighting media		
Special Firefighting Procedures:	None known		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled: Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazards. Wear proper protective equipment as specified in the protective equipment section.

SECTION 7. HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storing:

Avoid contact with skin and eyes.
Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips for several days and transfer to lenses and cause severe eye irritation.
Product releases acetic acid during application and curing.
Use mechanical ventilation to stay below TLV of 10 ppm acetic acid.
Uncured product contact irritates eyes.
Uncured product contact may irritate skin.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Exhaust ventilation
Eyewash stations
Use in a well ventilated area
Localized ventilation should be used to control dust levels.

Respiratory Protection: Use in a well ventilated area
Use approved NIOSH respiratory protection if TLV exceeded or over exposure is likely.

Protective Gloves: Cloth gloves

Eyes and face Protection: Use safety glasses

Ventilation: Use only in well ventilated area
Mechanical ventilation

Other Protective Equipment: None known

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product Information			
Boiling Point:	NA	(C) NA	(F)
Vapor Pressure (20ºC) (MM HG):	NEG		
Vapor Density (AIR=1):	NEG		
Freezing Point:	UNK	(C) UNK	(F)
Melting Point:	UNK	(C) UNK	(F)
Physical State:	Solid		
Odor:	Acetic Acid		
Color:	Red		
Odor Threshold (PPM)	1.0		
% Volatile by Volume:	<3.9		
Evap. Rate (Butyl Acetate=1)	Neg		
Specific Gravity (Water=1)	1.06		
Density (KG/M3)	1060		
Acid/Alkalinity (MEQ/G)	UNK		
PH	NA		
VOC (EPA METH.24) (G/L)	1060		
Solubility in Water (20ºC)	Insoluble		

Solubility in Organic Solvent (State Solvent): Toluene

SECTION 10. SPECIAL PRECAUTIONS

Stability: Stable

Hazardous Polymerization: Will Not Occur

Hazardous Thermal Decomposition/Combustion Products:

Carbon Monoxide
Carbon Dioxide
Silicon Dioxide
Acetic Acid

Formaldehyde

Incompatibility (Materials To Avoid): None Known

Conditions to Avoid: None Known

SECTION 11. TOXICOLOGICAL INFORMATION

Methyltriacetoxysilane:

Acute Oral LD50 (MG/KG):	2,060 (RAT)
Acute Dermal LD50 (MG/KG):	None Found
Acute Inhalation LC50 (MG/L)	None Found
Other:	None Found

AMES Test:

Octamethylcyclotetrasiloxane

Acute Oral LD50 (MG/KG):	>64,000 (RAT)
Acute Dermal LD50 (MG/KG):	>16,00 (RBT)
Acute Inhalation LC50 (MG/L)	**>**41 MG/L 6HR (RAT)
Other:	Non-irritating to the skin (human)

AMES Test:

Silanol/STPD Siloxane W/ME SILSQXNS

Acute Oral LD50 (MG/KG):	>40,000 RAT, ESTM.
Acute Dermal LD50 (MG/KG):	None Found
Acute Inhalation LC50 (MG/L)	**.**535 MG/L ESTM
Other:	

AMES Test:

Tetramer Treated Fumed Silica

Acute Oral LD50 (MG/KG):	NA
Acute Dermal LD50 (MG/KG):	NA
Acute Inhalation LC50 (MG/L)	NA
Other:	

AMES Test:

Dimethyl Polysiloxane Silanol/ST

Acute Oral LD50 (MG/KG):	RAT>40,000
Acute Dermal LD50 (MG/KG):	Unknown
Acute Inhalation LC50 (MG/L)	RAT >535 MG/L (4HR)
Other:	

AMES Test:

Red Iron Oxide

Acute Oral LD50 (MG/KG):	None found
Acute Dermal LD50 (MG/KG):	None Found
Acute Inhalation LC50 (MG/L)	None Found
Other:	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological Information:	No data at this time
Chemical Fate Information:	No data at this time

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Method:

Disposal should be made in accordance with federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

Dot Shipping Name: None
Dot Hazard Class: Not Dot Regulated
Dot Label(s): None
UN/NA Number: None
Placards: None
IATA: Not regulated by IATA
IMO IMDG-code: NA
European Class:
RID (OCTI): NA
ADR (ECE): NA
RAR (DATA): NA

SECTION 15. REGULATORY INFORMATION

SARA Section 302: None Found
SARA (311, 312) Hazardous Class: Acute Health Hazard, Chronic Health Hazard
SARA (313) Chemicals: None
CPSC Classification: Irritant
WHMIS Hazard Class: D2A Very Toxic Materials
D2B Toxic Materials
WHMIS Trade Secret: None
Export:
SCHDLE B HTSUS: 3910.00 Silicones in Primary Form
ECCN: EAR99
Hazard Rating System
HMIS Flammability 0, Reactivity 0, Health 2
NFPA Flammability 0, Reactivity 0, Health 2
California Proposition 65: None

SECTION 16. OTHER INFORMATION

This product or its components are on the European inventory of existing commercial chemicals (EINCES)..... These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

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