American Sealants, Inc.
"High Performance Silicones, Sealants, and Adhesives"
3806 Option Pass - Fort Wayne, IN 46818
260-489-0728

MATERIAL SAFETY DATA SHEET

PRODUCT: ASI 57 URETHANE

Suppliers Name: American Sealants, Inc.
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Date Issued: January 1, 2006
Date Revised: January 1, 2012

Section 1. Product Name

Product: High Performance Elastomeric Adhesive / Sealant
Product Classification: Adhesive / Sealant

Section 2. Composition

Single or Mixture: Single

CHEMICAL NAME	CAS NUMBER	WEIGHT %
Calcium Carbonate	1317-65-3	<70
Proprietary Polymers	–	<30
Titanium Dioxide	13463-67-7	<10
Carbon Black (gray and black only)	1333-86-4	<1

See Section 15 of this MSDS for OSHA Regulatory Status

Section 3. Hazards Identification

EMERGENCY OVERVIEW
Heavy paste with mild odor; various colors: white, grey and black.
Can cause skin and eye irritation.
Combustible Material (will burn). In case of fire, use foam, dry chemical, CO_2.

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY

Inhalation (breathing); eye and skin contact. CAUTION! Can cause skin and eye irritation;.

SYMPTOMS OF EXPOSURE

Inhalation: Breathing large amounts of vapor may be harmful.

Eye Contact: Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin Contact: Can cause skin irritation. Symptoms may include redness and burning of skin.
Ingestion: Swallowing large amounts may be harmful.

CHRONIC EFFECTS
Over exposure to a component of this material has been suggested as a cause of liver abnormalities in laboratory animals.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Eye or skin disease.

REPORTED AS CARCINOGEN OR POTENTIAL CARCINOGEN
International Agency for Research on Cancer (IARC)
(See Section 11)

Section 4. First Aid Measures

Inhalation: Remove from area to fresh air. If not breathing, clear airway and start mouth-to-mouth artificial respiration or use a bag-mask respirator. Get immediate medical attention. If victim is having trouble breathing, transport to medical care and, if available, give supplemental oxygen.

Eye contact: Immediately rinse eyes with water. Remove any contact lenses. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Continue flushing eyes with running water for at least 15 minutes. Get medical attention if irritation develops.

Skin Contact: Wash affected areas with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Wash clothing and decontaminate shoes before reuse. Get medical attention if irritation develops and persists.

Ingestion: **DO NOT** induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

NOTE TO PHYSICIAN – None

Section 5. Fire Fighting Measures

Flash Point and Method ..... >200 ºF.

GENERAL HAZARD
This product is combustible.

EXTINGUISHING MEDIA
For small fires, use foam, CO_2 or dry chemical. For large fires, use water spray, fog, or foam.

SPECIAL FIREFIGHTING INSTRUCTIONS
Move containers from area if it can be done without risk.

FIREFIGHTING EQUIPMENT
As in any fire, wear NIOSH approved, positive-pressure self-contained breathing apparatus and full protective gear.

Section 6. Accidental Release Measures

Wear appropriate protective equipment (see section 8). Ventilate area. Observe all local, state and federal regulations.

Section 7. Handling and Storage

HANDLING
Wear appropriate protective equipment (See Section 8). Avoid contact with eyes, skin, and clothes. Avoid breathing vapors. Keep container closed when not in use. Use with sufficient ventilation to keep area below established exposure levels. Wash thoroughly after handling.

Product is combustible.

STORAGE

Keep container tightly closed, Isolate from incompatible materials (see section 10)

Section 8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS
Use local exhaust or general dilution ventilation system.

PERSONAL PROTECTION

Respirator: Use NIOSH approved equipment only. For exposure above the exposure limit, use a respirator that has been selected by an industrial hygienist or other technically qualified person for the specific work conditions. If respirators are used, OSHA requires compliance with its respiratory program.

Eye Protection: Wear vented safety goggles or safety glasses.

Gloves: Nitrile gloves.

Clothing: Wear clothing that will protect the skin from exposure to this chemical. During emergency or while making repairs, wear clothing that will not allow this chemical to penetrate.

Other: Eye wash.

EXPOSURE CONTROLS

COMPONENT	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Titanium Dioxide*	15 mg/m^3	N/E	10 mg/m^3	N/E
Carbon Black*	3.5 mg/m^3	N/E	3.5 mg/m^3	N/E
Calcium Carbonate*	15 mg/m^3	N/E	10 mg/m^3	N/E

* exposure limits are provided for information only. This chemical is not in a respirable form in this product.

Section 9. Physical and Chemical Properties

State .....Paste pH.....NA
Color.....N/A Vapor Density.....N/E
Odor.....Mild Reactivity in Water.....Incompatible
Melting Point ºF.....N/E Specific Gravity .....~1.3 - 1.7
Boiling Point .....N/E Water Solubility.....Slightly soluble

Section 10. Stability and Reactivity

REACTIVITY
Stable.

INCOMPATIBILITIES
Avoid contact with acids and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS
May form oxides of carbon and various unidentified organic compounds.

Section 11. Toxicological Information

For Carbon Black: IARC - Group 2B (Possibly carcinogenic to humans)

For Product: Not established.

For Titanium Dioxide
Trochimowicz, et al., J. Appl. Tox., 8, 383-385 (1988)

50 Oral LD_{50} (rat)	>25 g/kg
50 Dermal LD_{50} (rabbit)	>10 g/kg
50 Inhalation LC_{50} (rat)	>6.82 mg/l (4 hr)

DuPont's Haskel Toxicology Laboratory conducted lifetime inhalation studies of respirable titanium dioxide at levels up to 250 mg/m^3; no compound related clinical signs of toxicity were seen in the exposed animals. Slight pulmonary fibrosis was seen at 50 to 250 mg/m^3 respirable titanium dioxide. Microscopic lung tumors were seen in 17 percent of the rats exposed to 250 mg/m^3 respirable titanium dioxide. The lung tumors observed in the rats were different from common human lung cancers, relative to anatomic type and location, and occurred only at dust levels which overwhelmed the animals lung clearance mechanism and therefore, are of questionable biological relevance for man.

Results of a DuPont epidemiology study showed that employees who had been exposed to titanium dioxide pigments were at no greater risk of developing lung cancer than were employees who had not been exposed to titanium dioxide pigments. No pulmonary fibrosis was found in any of the employees and no associations were observed between titanium dioxide pigment exposure and chronic respiratory and chronic respiratory disease or lung abnormalities. Based on the results of this study, DuPont concluded that titanium dioxide pigment will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

The National Cancer Institute (NCI) conducted a feed study in rats and mice in which either 25,000 or 50,000 parts per million titanium dioxide was given in their diet for two years. Under the condition of the NCI test, titanium dioxide did not cause cancer by the oral route.

Titanium dioxide has been classified by the American Congress of Governmental Industrial Hygienists (ACGIH) as an A4 Carcinogen - Not Classifiable as a Human Carcinogen. ("1999 TLVs and BEIs, " pg. 67). It has been classified by the International Agency for Research on Cancer (IARC) as Group 3 - Not Classifiable as to its Carcinogenicity to Humans (IARC Monograph 47, 1989).

Section 12. Ecological Information

For Product: Not established.

Section 13. Disposal Consideration

Product disposal
Recommendation:
Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

Packaging disposal
Recommendation:
Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

Section 14. Transportation Information

US DOT & CANADA TDG SURFACE
Valuation.....: Not regulated for transport

Transport by sea IMDG-Code
Valuation.....: Not regulated for transport

Air transport ICAO-TI/IATA-DGR
Valuation.....: Not regulated for transport

Section 15. Regulatory Information

OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)
Hazardous

CERCLA/SUPERFUND (40 CFR 117, 302)
N/A

SARA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)
N/A

SARA HAZARD CATEGORIES (40 CFR 370)
Acute

SARA TOXIC CHEMICAL (40 CFR 372)
N/A

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR Section (33))

This product has been classified according to the hazard criteria of the Controlled Products Regulations, and the MSDS contains all required information.

3 Controlled Product: Classification: D2B

INVENTORY STATUS
The ingredients of this chemical are listed on the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.

TOXIC SUBSTANCES CONTROL ACT
No specific regulations apply.

STATE REGULATIONS
California Proposition 65 .....Crystalline Silica - Warning - This chemical is known to the State California to cause cancer.
Massachusetts Right to Know List .....Carbon Black, Titanium Dioxide
Minnesota Hazardous Substance List .....Carbon Black, Titanium Dioxide
New Jersey Right to Know List .....Carbon Black (SN 0342), Titanium Dioxide (SN 1861)
Pennsylvania Right to Know List.....Carbon Black, Titanium Dioxide
Rhode Island Hazardous Substance List.....Carbon Black, Titanium Dioxide

Section 16. Other Information

HMIS III rating
Health: 1 Flammability: 0 Physical hazard: 1
HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance Possesses essentially no hazard; a rating of four indicates high hazard.

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For Industrial Use Only
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