

# MATERIAL SAFETY DATA SHEET

## 1. Chemical Product and Company Identification

### PRODUCT: ASI #405 V/S SILICONE SEALANT

**Manufactured by:** American Sealants, Inc.  
3806 Option Pass  
Fort Wayne, IN 46818

**Revised:** 02/01/2006  
**Issued:** 02/01/2004

**Phone:** (260) 489-0728

**Fax:** (260) 489-0519

**Emergency Phone #** (800) 535-5053 (InfoTrac)

## 2. Composition/Information of Ingredients

**Chemical characterization (preparation):**

**Chemical characteristics:** Polydimethylsiloxane + filler + auxiliary products +alkoxysilane cross-linker

### Information on ingredients:

Type	CAS No.	Substance	Contents (wt.%)		Note
			Lower	Upper	
INHA	1185-55-3	Trimethoxy methylsilane	1.0	5.0	
INHA	Trade Secret	Amino Functional alkoxyalkylsiloxane	1.0	5.0	
INHA	2768-02-7	Trimethoxy vinylsilane	1.0	5.0	

**Type:** HYD - by - products upon hydrolysis, INHA -ingredient, NEBE - by product, MONO-residual monomer, VERU-impurity, VUL-by product upon vulcanization. \*\*\*NOTE: C1 - IARC carcinogen, C2-NTP carcinogen, C3-OSHA carcinogen, NH-non-hazardous, R-Reproductive toxin.

## 3. Hazards Identification

### Hazards Classifications

#### HMIS rating (product as packaged)

Health: 1      Fire:1      Reactivity: 1      PPE: G

Note: Respiratory protection is only recommended in the event that ventilation or engineering controls are unable to maintain exposures below recommended levels; or in the event of a spill or other emergency response situation. Hazardous Material Identification System and HMIS are registered trademarks of the National Paint and Coating Association.

**Canadian WHMIS Classification:** None

**Emergency Overview and potential hazards:** This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria

**Physical Hazards:** No known physical hazards.

#### Acute health effects:

**Route of entry or possible contact:** Eyes, skin, inhalation (hydrolysis products), ingestion

**Eye contact:** May cause slight eye irritation

**Skin contact:** May cause slight skin irritation

**Inhalation:** Not expected due to high viscosity. Section 3 "Additional Information on acute health

effects”

**Ingestion:** Not expected in industrial use.

**Addition information on acute health effects:** The toxicological evaluation is in accordance with test result(s) of an/some ingredient(s). This material releases methanol (methyl alcohol) upon moisture curing. Upon completion of the curing process, methanol will no longer be released. According to literature methanol (CAS-No. 67-56-1) irritates mucous membranes, has skin drying and narcotic effects up to coma or death. Absorption by the skin is possible. Possibility of damage to heart, kidneys, liver and optic nerves (blindness) over a period of time.

**Further Information:**

**Chronic health effects:** None known. By-products: See Additional Information on acute health effects.

**Medical conditions which may be aggravated by exposure:** Unknown

**Carcinogens/Reproductive toxins:** This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels. Exposure to carcinogens cannot occur under normal conditions of use or during foreseeable emergencies.

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## 4. FIRST AID MEASURES

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**General Information:** In case of sickness seek medical advice (show label if possible)

**After Inhalation:** If inhaled, remove to fresh air. Get medical attention if symptoms occur. Show Label

**After Contact with the skin:** Remove material with a waterless skin cleaner from skin and clothing. Wash then with plenty of water or water and soap. Get medical attention if symptoms occur.

**After contact with eyes:** If contact with eyes, immediately flush eyes with plenty of water. Get medical attention if irritation occurs.

**After swallowing:** Drink plenty of water. Get medical attention immediately. Show label.

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## 5. FIRE FIGHTING MEASURES

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**Flammable Properties:**

<b>Flash Point:</b>	Not applicable
<b>Boiling Point</b>	Not applicable
<b>Lower explosion limit (LEL)</b>	Not applicable
<b>Upper explosion limit (UEL)</b>	Not applicable
<b>Autoignition temperature:</b>	>400°C (>72°F)
<b>Fire and explosion hazards:</b>	Consider possible formation of explosive mixtures with air, for example in uncleaned containers
<b>Recommended Extinguishing media:</b>	Water-spray jet, carbon dioxide, dry chemical or alcohol-resistant foam-type extinguishing media.
<b>Unsuitable extinguishing media:</b>	Sharp water jet
<b>Special exposure hazards arising from the substance or preparation itself, combustion productions, resulting gases:</b>	
<b>Fire fighting procedures:</b>	Cool endangered containers with water. Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Precautions:** Wear personal protection equipment (see section 8). Avoid contact with eyes and skin. Avoid inhaling mists and vapours. If material is released indicate risk of slipping.

**Containment:** Do not introduce into waters, sewage water or soil. Dam in any fluid that runs out using suitable material (e.g. earth).

Spills of material which could reach surface water must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802

**Methods for Cleaning Up:** Do not flush away with water. Take up mechanically and dispose of according to local/State/federal regulations. Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Clean any slippery coating that remains using a cold cleaner. (e.g. petroleum naphtha or a water/surfactant mix).

**Further Information:** Eliminate all sources of ignition.

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## 7. HANDLING AND STORAGE

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### Handling

#### Precautions for Safe handling:

Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10. Spilled substance increases risk of slipping.

#### Precautions against fire and explosion

Formation of explosive mixtures with air, also in empty, uncleaned containers. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

### Storage:

Conditions for storage rooms and vessels: -

Advice for storage of incompatible materials: -

Further information for storage: Protect against moisture. Keep container tightly closed and store in a cool, well ventilated place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Engineering Controls:

Ventilation: Use only with adequate ventilation

Local Exhaust: Recommended

Associate substances with Specific Control parameters such as limit values Threshold limit values (TLV).

CAS No.	Material	Type	mg/m <sup>3</sup>	ppm	Dust Fract.
67-56-1	Methanol	OSHA PEL	260.00	200.0	
67-56-1	Methanol	ACGIH TWA		200.0	

Re Methanol: STEL is 250 ppm, skin notation (ACGIH); STEL is 250 ppm, skin notation (NIOSH).

### Personal protection equipment (PPE)

**Respiratory Protection:** In case of long or strong exposure use a NIOSH approved respirator for: organic vapors.

**Hand protection:** Rubber gloves

**Eye Protection:** Chemical safety goggles

**Other protective clothing or equipment:** Protective clothing

**General hygiene and protection measures:** Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/ aerosol. Do not eat, drink or smoke when handling. Wash thoroughly after handling.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

**Form:** Paste

**Color:** See cartridge

**Odor:** Pleasant

### Safety parameters:

**Melting Point:** Not applicable

**Boiling Point:** Not Applicable

**Flash Point:** Not applicable

**Autoignition temperature:** >400°C (>752°F)

**Lower explosion limit (LEL)** Not applicable

**Upper explosion limit (UEL)** Not applicable

**Vapor pressure:** Not applicable

**Density:** 0.99-1.3 g/cm<sup>3</sup> at 25°C (77°F)

**Solubility in Water** Virtually insoluble

**ph-Value** Not applicable

Further information:

Re. Solubility in Water: Hydrolytic decomposition occurs. Explosion limits for released methanol: 5.5-44% (V)

Thermal decomposition: Not applicable.

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## 10. STABILITY AND REACTIVITY

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**General Information:** If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

**Conditions to avoid:** Moisture

**Materials to avoid:** Reacts with basic substances, acids, and water to form methanol.

**Hazardous decomposition products:** Under the effects of humidity: methanol. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150°C (302°F) through oxidation.

**Further information:** Hazardous polymerization cannot occur.

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## 11. TOXICOLOGICAL INFORMATION

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**General information:** Toxicological testing has not been conducted with this material.

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## 12. ECOLOGICAL INFORMATION

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**Information on elimination (persistence and degradability)**

**Biodegradation/further information:** Biologically not degradable.

**Further Information:**

**Behavior in environmental compartments**

**Further informaton:** Bioaccumulation improbable.

**Extotoxiclgical effects:** According to past experience toxicity to fish is improbable.

**Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):**

According to present experience, no adverse effects on water purification plants.

**Further ecological information:**

**General information:**

In cross-linked state not soluble in water. Easily separable from water by filtration.

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## 13. DISPOSAL CONSIDERATIONS

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**Product disposal**

**Recommendation:** Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of in a domestic waste incinerator. Observe local/state/federal regulations.

**Packaging Disposal:**

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

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## 14. TRANSPORT INFORMATION

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**US DOT & Canada TDG Surface:**

**Valuation:** Not regulated

**Transport by sea IMDG-Code**

**Valuation:** Not regulated

**Air Transport ICAO-TI/IATA-DGR**

**Valuation:** Not regulated

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## 15. REGULATORY INFORMATION

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**U.S. Federal regulations:**

**TSCA inventory status and TSCA information:** This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory

**TSCA 12 (b) Export Notification**

CAS No.	Chemical	Reporting required under TSCA
Trade Secret	Amino functional alkoxyalkylsiloxane	Annual 12(b) Export Notification Required under Section 5 of TSCA

**US State regulations:**

This material contains no substances at or above the reportable levels which are listed on one of the following lists: SARA Title III Section 302 Extremely Hazardous substances, SARA Title III Section 313 Toxicity Chemicals, National Toxicology Program (NTP) Annual Report Carcinogens, International Agency for Research on Cancer (IARC) Human Carcinogens (Group 1, 2A or 2B), OSHA highly Hazardous chemicals, California Safe Drinking Water and Toxic Enforcement Act (Proposition 65) Substances (Carcinogens/Reproductive toxins), Massachusetts Substance List, New Jersey Right To Know Hazardous Substance List, Pennsylvania Hazardous Substance List.

**Canadian regulations:**

This product has been classified in accordance with the Hazard Criteria of the CPR and The MSDS contains all the information required by the CPR.

**WHMIS Hazard Classes:** None

**DSL Status:** This material or one or more of its components is not listed on the Canadian Domestic Substances List

**Non-DSL Chemicals:**

CAS No.	Chemical	Upper Limit Wt. %
Trade Secret	Amino Functional alkoxyalkylsiloxane	1.7

**Canadian International Regulations:**

EU Risk Phrases

R-Phase	Description
R-	-

**Canadian International Regulations:**

EU Safety Phrases

R-Phase	Description
S-	-

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## 16. OTHER INFORMATION

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**Additional Information:**

These data are offered in good faith as typical values and not as a product specification. No warranty, whether 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.

**Glossary of Terms**

ACGIH = American Conference of Governmental Industrial Hygienists  
 DOT = Department of Transportation

hPa = Hectopascals  
mPa\*s = Milli Pascal - seconds

ppm = Parts per Million  
SARA = Superfund Amendments and  
Reauthorization Act

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limit

TSCA = Toxic Substances Control Act

TWA = Time Weighted Average

PEL = Permissible Exposure Limit

WHMIS = Canadian Workplace Hazardous Material Identification System

**Flash Point Determined Methods**

ASTM D56  
ASTM D92, DIN 51376, ISO 2592  
ASTM D93, DIN 51758, ISO 2719  
ASTM D3278, DIN 55680, ISO 3679  
DIN 51755

**Common Name**

Tagliabue (Tag) closed cup  
Cleveland Open Cup  
Pensky-Martens closed cup  
Setaflash or Rapid Closed Cup  
Abel-Pensky Closed Cup.

**Conversion Table:**

Pressure: 1hPa \* 0.75=1 Torr; 1bar = 1000 hPa

Viscosity: 1mPa\*s = 1 Centipoise (Cp)

By-product = reaction by-product, TSCA inventory status not required 40CFR part 720.30 (h-2)