

MATERIAL SAFETY DATA SHEET

Prepared by: Technical Barrier Systems

Revision Date: January 1, 2009

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard.

All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

1. **PRODUCT NAME:** SealMaster 40%

Chemical Family: Organosilane Ester and Alcohol mixture.

2. HAZARDOUS INGREDIENTS:	CASNO	EXPOSURE LIMITS*			CONTENT
		TLV	STEL	PEL	
Isopropanol (IPA)	67-63-0	400ppm	500ppm	400ppm	<60%*

Refer to Section 7 for available LD/LC(50) Health Hazard Data.

3. **PHYSICAL DATA:**

Boiling Point (°C): (IPA)	84	Water/Oil Distribution	
Percent Volatile:	< 60	Coefficient:	N/Av
Freezing Point (°C)	N/Av	Solubility in Water:	None
Vapor Pressure mmHg @20(°C): (IPA)	33	Specific Gravity:	0.82
Vapor Density:	> Air	pH:	N/Av
Odor Threshold:	N/Av	Evaporation Rate:	N/Av
Appearance:	Yellowish-clear Liquid	Odor: Penetrating	
N/Av = Not Available	N/Av = Not Available	ca.=Approximate	

4. **FIRE AND EXPLOSION HAZARD DATA:** HMIS Hazard Rating No. 3 (Serious)

Flash Point: 23°C (73°F) Method: Pensky Martin C.C.

Auto-Ignition Temp.: <399°C (<750°F) (IPA)

Limits of Flammability: LEL: 2.5% (IPA) UEL: 12.0% (IPA)

Extinguishing Media: Carbon dioxide, foam, dry chemical & water fog.

Special Fire & Unusual Hazards: At higher temperature vapors can cause pressure build up in sealed containers. Vapors heavier than air can concrete, travel to source of ignitions, and flash back. Residue in container can ignite explosively. Electrical grounding because of the size of containers is not recommended.

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5. **REACTIVITY DATA:** HMIS Hazard Rating No. 0 (Minimal)

Stability: Stable. Not sensitive to mechanical impact. Avoid excessive catalyst and heat. Excessive heat, fumes and smoke can occur if this product is not mixed and used according to directions.

Incompatibility: Peroxides, oxidizing and reducing agents.

Hazardous Decomposition Products: Oxides of carbon and nitrogen; various unknown hydrocarbons from incomplete combustion.

Hazardous Polymerization: Will not occur when handled per instructions.

6. **ENVIRONMENTAL AND DISPOSAL INFORMATION:**

Action to Take For Spills/Leaks: Ventilate area, eliminate all sources of ignition. Prevent from entering sewers and waterways. Wear appropriate protective gear, contain leak or spill, salvage, clean up residue with absorbent material.

Waste Disposal Method: Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province, and federal regulation. Incineration at agency approved waste-disposal facilities.

7. **HEALTH HAZARD DATA:** HMIS Hazard Rating No. 3 (Serious)

PRIMARY ROUTE OF ENTRY: Inhalation, Dermal, Eyes, Ingestion

Effects of Overexposure

Inhalation: Vapors can be irritating to nose and mucus membranes. High Isopropanol exposures may result in narcotic effect, headaches and possible unconsciousness.

LC(50) Inhal. CASRN 67-63-0 12000ppm 8Hrs Rat.

Eyes: Contact may cause severe irritation, redness, tearing and blurred vision. May cause corneal injury.

Skin Contact: Prolonged or repeated exposure may cause skin irritation, redness and even skin damage.

Skin Absorption: Low dermal toxicity.

LD(50) Dermal CASRN 67-63-0 12.8 gm/kg Rabbit.

Ingestion: Intake can cause gastrointestinal irritation, nausea, vomiting, diarrhea, headache, and drowsiness. May cause chemical pneumonia if aspirated into lungs

LD(50) Oral CASRN 67-63-0 5045mg/kg Rat.

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Chronic: Materials are not known mutagenic or reproductive health hazards
Test data has been reported showing Isopropanol as an experimental mutagen, experimental teratogen and reproductive health hazard.

8. **FIRST AID:**

Inhalation: Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek medical attention.

Eyes: Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash clothing before reuse.

Ingestion: Do NOT induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person.

9. **SPECIAL PROTECTION INFORMATION:**

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of heavy vapors.

Personal Protection Equipment: Do NOT wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and Rubber/Latex gloves. Selection of specific items such as boots and apron will depend on operation. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH/OSHA approved respirators equipped with an organic vapor cartridge for listed hazard.

Confined spaces, rooms, or tanks are areas where concern for TLV's is especially important. Reference OSHA Regulation CFR 29 1910.134 for recommended respiratory protection.

10. **ADDITIONAL INFORMATION:**

Average Shelf Life: Refer to Product Data Sheet.

Special Instructions: Store in cool, dry place.

REGULATORY INFORMATION:

Title III Section 302: No reportable chemicals.

Title III Section 311/312: Health hazard: Immediate
Physical hazard: Fire

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REGULATORY INFORMATION: (Cont'd)

Title III Section 313: No reportable chemicals

WHMIS Classification: Class B, Div 2
Class D, Div 2, sub B

TRANSPORTATION

National Motor Freight Classification (NMFC): 33880 Sub: 2 Class: 55
Description: REGULATED- USE DOT PROPER SHIPPING NAME

Emergency Response Guide Page No.: 128

DOT Reportable Quantity: 0 LBS.

Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.

UNNO: UN 1993 Class: 3 Package Group: II
(Contains: ISOPROPANOL)
Label: FLAMMABLE Sub-Label: NONE

Marine Pollutant: NL

P = Moderate

PP = Severe

WS = Water Sheen

NL = Not Listed

ND = Not Determined

The information herein is given in good faith. No warranty, expressed or implied, is given regarding the accuracy of these data or the results obtained from the use thereof. Consult Technical Barrier Systems Inc. for further information.