

# MATERIAL SAFETY DATA SHEET

Identity (as used on label and list):	SIL-ACT™ ATS-100
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<b>Section 1</b>	
Manufacturer's Name <b>Advanced Chemical Technologies, Inc.</b> Address <b>100 West Wilshire, Suite C-1</b> <b>Oklahoma City, Oklahoma 73116</b>	Emergency Telephone Number <b>(800) 255-3924</b> Telephone Number for Information <b>(405) 843-2585</b> Date Prepared: February 1, 2010

<b>Section 2 - Hazardous Ingredients / Identity Information</b>			
Hazardous Components : Specific Chemical Identity; Common Name(s) <b>Alkoxysilane - CAS No. 18395-30-7 &gt;90%</b> <b>Methanol - CAS No. 67-56-1 1-5%</b> <b>Methanol Is Formed upon Contact with Moist Air.</b>	OSHA PEL <b>NE</b> <b>200 ppm</b>	ACGIH TLV <b>NE</b> <b>200 ppm</b>	Other Limits <b>NE</b> <b>NE</b>

<b>Section 3 - Physical / Chemical Characteristics</b>			
Boiling Point:	<b>155C</b>	Specific Gravity:	<b>0.933 @ 25C</b>
Vapor Pressure (mm Hg)	<b>&lt;5</b>	Percent Volatile by Volume:	<b>&gt;95%</b>
Vapor Density (Air = 1)	<b>&gt;1</b>	Evaporation Rate:	<b>&lt;1</b>
Solubility in Water:	<b>Reacts with Water</b>	pH (Concentrate):	<b>NA</b>
Appearance and Odor:	<b>Liquid, Colorless - Alcohol Odor</b>		

<b>Section 4 - Fire and Explosion Hazard Data</b>		<b>FLAMMABILITY: NFPA 3</b>	
Flash Point (Method Used): <b>98.6 F (TCC)</b>	Flammable Limits:	LEL <b>NE</b>	UEL <b>NE</b>
Extinguishing Media: <b>Dry Chemical, Polymer Foam, Carbon Dioxide</b>			
Special Fire Fighting Procedures: <b>Self Contained Breathing Apparatus (SCBA) and Protective Clothing Should be Worn with Fires Involving Chemicals</b>			
Unusual Fire and Explosion Hazards: <b>None Known</b>			

<b>Section 5 - Reactivity Data</b>		<b>REACTIVITY: NFPA 0</b>	
Stability:	Unstable:	Stable:	Conditions to Avoid:
		<b>X</b>	<b>NA</b>
Incompatibility: <b>Material Reacts with Water, Strong Oxidizers and Reducers</b>			
Hazardous Decomposition or By-Products: <b>Silicon Dioxide, Carbon Dioxide and other Hydrocarbons</b>			
Hazardous Polymerization:	May Occur	Will Not Occur	Conditions to Avoid:
		<b>X</b>	<b>NA</b>

VOC Content, as applied, < 350 g/L (Method 24, ASTM D-5095)



**Section 11- Ecological Information**

**Environmental Fate and Distribution**

Complete information in not yet available.

**Environmental Effects**

Complete information in not yet available.

**Fate and Effects in Waste Water Treatment Plants**

Complete information in not yet available.

Ecotoxicity Classification Criteria

Hazard parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <=2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the exotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

**Section 12- Disposal Considerations**

**RCRA Hazard Class (40 CFR 261)**

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes

Characteristic Waste:

Ignitable: D001

State or local laws may impose additional regulatory requirements regarding disposal.

Call Advanced Chemical Technologies, Inc., (405) 843-2585 if additional information is required.

**Section 13- Transport Information**

**DOT Road Shipment Information (49 CFR 172.101)**

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

Hazard Technical Name: Alkoxysilane

Hazard Class: 3

UN/NA Number: UN1993

Packing Group: II

Hazard Label(s): FLAMMABLE LIQUID LABEL

**Ocean Shipment (IMDG)**

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

Hazard Technical Name: Alkoxysilane

Hazard Class: 3

UN/NA Number: UN1993

Packing Group: II

Hazard Label(s): FLAMMABLE LIQUID LABEL

Marine Pollutant: Not Applicable

**Air Shipment (IATA)**

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

Hazard Technical Name: Alkoxysilane

Hazard Class: 3

UN/NA Number: UN1993

Packing Group: II

Hazard Label(s): FLAMMABLE LIQUID LABEL

Call Advanced Chemical Technologies, Inc., (405) 843-2585 if additional information is required.

**Section 14- Regulatory Information**

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910, 1200

TSCA Status: All Chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances

**EPA SARA Title III Chemical Listings****Section 302 Extremely Hazardous Substances:**

None.

**Section 304 CERCLA Hazardous Substances:**

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
67-56-1	2.0	Methyl alcohol

**Section 312 Hazard Class:**

Acute: Yes  
Chronic: Yes  
Fire: Yes  
Pressure: No  
Reactive: No

**Section 313 Toxic Chemicals:**

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
67-56-1	2.0	Methyl alcohol

**Supplemental State Compliance Information****California**

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

**Section 15- Other Information**

Prepared by: Advanced Chemical Technologies, Inc.

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