

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product: SR-5 Siloxane Water Repellant

Product Code: SR-5

MSDS Date: 06-01-04

2. COMPANY IDENTIFICATION

Acrymax Technologies Inc.

221 Brooke Street

Media, PA 19063

Emergency Phone # 610-566-7473

Information Phone # 800-553-0523

3. INGREDIENTS

#	Ingredient	CAS Reg. #	Weight (%)	Occupational Exposure Limits
1	1-Octyl-Triethoxysilane	2943-75-1	<5	None established
2	Siloxanes	174125-94-1	<5	None established
3	Water	7732-18-5	<95	NA

4. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Milky white liquid
State	Liquid
Odor Characteristic	Characteristic
Vapor Pressure	8 mbar 20°C
Weight per gallon	8.25 – 8.5
Boiling Point	~250°F
Solubility in Water	Soluble
VOC	<50 grams/liter

The physical and chemical data given in Section 4 are typical values for this product and are not intended to be product specifications.

5. FIRE AND EXPLOSION HAZARD DATA

Flash Point	Non-Combustible
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Extinguishing agents: Foam, CO₂, Dry chemical

Personal Protective Equipment: As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear.

Unusual Fire and Explosion Hazards: Pressure may build up in tightly closed containers exposed to fire which may result in rupture. Keep containers cooled with water spray. Material can spatter above 100°C/212°F.

6. REACTIVITY DATA

Instability: Material is considered stable.

Hazardous Decomposition Products: Thermal decomposition may yield carbon monoxide, silicon dioxide, formaldehyde, ethanol, acrid fumes.

Hazardous Polymerization: Product will not undergo hazardous polymerization.

Incompatibility: None known

Conditions to avoid: Keep away from heat, sparks, and flame.

7. HEALTH HAZARD DATA

Primary Routes of Exposure: Inhalation - Skin Contact - Eye Contact

Inhalation - Inhalation of vapor or mist can cause the following: irritation of nose, throat and lungs. Excessive inhalation causes headache, dizziness, nausea, and incoordination.

Eye Contact – May cause severe eye irritation. Causes redness and tearing. Causes blurred vision.

Skin Contact - Prolonged or repeated skin contact can cause the following: -moderate skin irritation – May cause a rash and itching of the skin.

Ingestion - Material is harmful if swallowed. Material can cause the following: -gastrointestinal irritation – nausea – vomiting – diarrhea

Medical Conditions Aggravated – Pre-existing liver or kidney disorders.

Subchronic (Target Organ) Effects – Liver and kidney damage. This product contains ethyl alcohol which consumption is known to cause birth defects.

Other – This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300° F and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

8. FIRST AID MEASURES

Inhalation - Move subject to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Get medical attention immediately.

Eye Contact - Immediately flush eyes with a large amount of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact - Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. If redness, itching or a burning sensation develops, see a physician.

Ingestion - DO NOT induce vomiting. Slowly dilute with 1-2 glasses of water or milk. Get medical attention immediately. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

Note to Physician – None known.

9. ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear compatible, chemically resistant gloves. Wear protective clothing including splash proof goggles and rubber overshoes.

Procedures: Contain spills immediately with inert materials (e.g. sand, earth). If material is spilled in a confined area ventilate the area well. Keep spectators away. Floor may be slippery; use care to avoid falling. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

10. HANDLING & STORAGE

Storage Conditions: Avoid temperature extremes during storage; ambient temperature preferred. Store in well-ventilated area. Keep container tightly closed when not in use. Keep from freezing. Store material out of direct sun.

Handling Procedures: Use in well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames. Do not work alone! Keep out of reach of children!

Other: Improper disposal or re-use of this container may be dangerous and illegal. Refer to applicable local, state and federal regulations.

11. EXPOSURE CONTROLS – PERSONAL PROTECTION

Respiratory Protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required under normal operation conditions. Approved mechanical filter respirator to remove solid airborne particles of overspray during spray application.

Eye Protection: Use chemical splash goggles or face shield. (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

Hand Protection: Chemical-resistant gloves should be worn whenever this material is handled. Rinse and remove gloves immediately after use. Wash hands with soap and water.

Other protection: Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

Engineering Controls (Ventilation): Use local exhaust ventilation with a minimum capture velocity of 100ft/min. (.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice

published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Other Engineering Controls: Showers. Eye wash stations.

Work – Hygienic Practices: Remove contaminated clothing; launder or dry clean before reuse. Wash thoroughly with soap and water.

12. DISPOSAL CONSIDERATIONS

Procedure: Dispose of in accordance with local, state and federal regulations. Incineration recommended in approved incinerator according to local, state and federal regulations.

13. TRANSPORT INFORMATION

US DOT Class

Not DOT Regulated

14. OTHER INFORMATION

Category	HMIS – SR-5	Scale
Toxicity	2	4=Extreme
Fire	1	3=High
Reactivity	1	2=Moderate
Special	-	1=Slight
		0=Insignificant

Prepared by: Acrymax Technologies Inc. – Technical Department

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