



MATERIAL SAFETY DATA SHEET

Copyright: 2004

Effective Date: 1/1/08

Supersedes: 1/10/07

Emergency #: 800-424-9300

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: SW-244-100 Water Repellent

PROCESSORS NAME: Chemical Products Industries, Inc.
7649 S.W. 34th Street
Oklahoma City, OK 73179
Tel: (405) 745-2070

GENERIC DESCRIPTION: Alkylalkoxysilane

NFPA PROFILE: HEALTH 2 FLAMMABILITY 2 INSTABILITY/REACTIVITY 0

NOTE: NFPA = NATIONAL FIRE PROTECTION ASSOCIATION

SECTION 2. OSHA HAZARDOUS COMPONENTS

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>% BY WT*</u>
- Alkylalkoxysilane	confidential	>60
- Branched Octyltrimethoxysilane	90552-56-0	3.0-10.0
- Dioctyltetramethoxydisiloxane	None	1.0-5.0

The above components are hazardous as defined in 29 CFR 1910.1200.

SECTION 3. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Colorless to pale yellow
ODOR:	Alcohol odor
AVERAGE MOLECULAR WEIGHT:	90
BOILING POINT, 760 mm Hg:	> 95 °F
FLASH POINT, Tag Closed Cup	142 °F
AUTOIGNITION TEMPERATURE:	590°F
FLAMMIBILITY LIMITS IN AIR:	Not Determined
VAPOR PRESSURE, at 100 F:	46.5 mm Hg
SPECIFIC GRAVITY @ 25° C:	.91
SOLUBILITY IN WATER, by wt.:	Not Determined
VOLATILE CONTENT:	Not Determined
Ph:	Not Determined
VISCOSITY:	2 cSt

SECTION 4. HEALTH HAZARDS

EYE CONTACT: Direct contact may irritate seriously with moderate to severe redness, swelling and some corneal injury lasting generally days up to a week.

SW-244-100 MSDS

- SKIN CONTACT:** A single short exposure causes moderate skin irritation, may cause defatting. Prolonged contact (24 to 48 hours) irritates seriously and may burn mildly.
- INHALATION:** Causes moderate respiratory tract irritation; causes central nervous system damage. Vapor overexposure may cause drowsiness.
- INGESTION:** This material can enter the lungs during swallowing or vomiting and cause lung inflammation and / or damage (aspiration hazard). However, ingestion is not expected in industrial use. If swallowed, product meeting with body fluids can form methyl alcohol which may cause blindness and possibly death.

ACUTE EFFECTS OF EXPOSURE: Refer to routes of exposure above.

CHRONIC EFFECTS OF EXPOSURE: None known.

There is no data available which address medical conditions that are generally recognized as being aggravated by exposure to this product.

This material does not contain any ingredients listed by IARC, NTP or OSHA as carcinogens, teratogens or mutagens in amounts exceeding 0.1%.

This material releases methyl alcohol upon hydrolysis. Methyl alcohol causes optic neuropathy, metabolic acidosis and respiratory depression. Signs and symptoms of overexposure include headache, blurred vision, constricted visual fields, shortness of breath, dizziness and vertigo. Ingestion of methyl alcohol may lead to blindness or death.

SECTION 5. FIRST AID MEASURES

EYE CONTACT: In case of contact, flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing the entire surface of the eye and lids with water. Get medical attention.

SKIN CONTACT: Remove excess material from the skin with a waterless skin cleaner. Flush skin with plenty of water and wash well with water and soap. Remove contaminated clothing and shoes. Obtain medical attention. Wash clothing before reuse.

INHALATION: If inhaled, remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

INGESTION: Never give an unconscious person anything to drink. If unconscious, treat for shock. Notify a physician or the nearest poison control center immediately. If conscious, have the person rinse his mouth with cold water. Induce vomiting (vomiting may occur naturally). If unconscious and vomiting, turn the person on his side to avoid choking.

COMMENTS: Treat as same as methyl alcohol poisoning.

SECTION 6. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT, Tag Closed Cup	142 °F
AUTOIGNITION TEMPERATURE:	590°F
FLAMMIBILITY LIMITS IN AIR:	Not Determined

Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.

Fire Fighting Measures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire Hazards: None

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

SECTION 7. SPILL, LEAK & DISPOSAL PROCEDURES

Eliminate all ignition sources. Control the source of the spill if it is safe to do so.

Dike area to contain spill and to prevent entry into sewers or waterways.

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices (refer to SECTION VIII: INDUSTRIAL HYGIENE).

Absorb spill with sand or Fuller's earth. Sweep up and place in an appropriate chemical waste container. Flush spill area with water. Observe all local, state, and federal laws and regulations regarding disposal, spill, cleanup, removal, or discharge.

SECTION 8. HANDLING AND STORAGE

Store in a cool, dry, well ventilated area. Keep away from heat, sparks and open flame. Never use welding or cutting torch on or near any container (even empty) as an explosion can occur. Care should be taken to prevent moisture condensation in the container. Keep container closed and store away from water or moisture.

Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge.

SECTION 9. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>EXPOSURE LIMITS</u>
- Alkylalkoxysilane	34396-03-7	See methyl alcohol comments.
- Branched Octyltrimethoxysilane	90552-56-0	See methyl alcohol comments.
- Dioctyltetramethoxydisiloxane	None	See methyl alcohol comments.

Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm.

Engineering Controls

Local Ventilation: Recommended
General Ventilation: Recommended

Personal Protective Equipment for Routine Handling

Eyes: Use chemical worker's goggles. An eye wash station should be available.

Skin: Appropriate personal protective equipment necessary to prevent contact should be worn. Chemical resistant clothing and resistant boots should be worn where spills or splashing can occur. Wash contaminated clothing before reuse.

Suitable Gloves: (Silver Shield (R), 4H (R), nitrile, neoprene or other material resistant to alcohol) are recommended.

Inhalation: Use respiratory protection unless adequate ventilation is provided or air sampling data show exposures are within recommended exposure guidelines.

Suitable Respirator: Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid: None.

Materials to Avoid: Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8.

SECTION 11. TOXICOLOGICAL INFORMATION

Special Hazard Information on Components: No known applicable information.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: Complete information is not yet available.

Environmental Effects: Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants: Complete information is not yet available.

Do not allow SW-244-100 to enter soil or drains.

SECTION 13. 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? No

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

SECTION 14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

PROPER SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S.

HAZARD TECHNICAL NAME: ALKYLALKOXYSILANE

UN/NA NUMBER: NA1993

HAZARD CLASS: COMBUSTIBLE LIQUID

PACKAGING GROUP: III

REMARKS: Above applies only to containers over 119 gallons or 450 liters.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

SECTION 15. 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: None

Section 312 Hazard Class:

Acute: Yes

Chronic: Yes

Fire: Yes

Pressure: No

Reactive: No

Section 313 Toxic Chemicals: None present or none present in regulated quantities.

Supplemental State Compliance Information

California:

Warning: This product contains the following chemicals 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.

Massachusetts:

No ingredient regulated by MA Right-to-Know Law present.

New Jersey:

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- Dioctyltetramethoxydisiloxane	None	1.0-5.0

Pennsylvania:

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>% BY WT*</u>
- Alkylalkoxysilane	34396-03-7	<60
- Branched Octyltrimethoxysilane	90552-56-0	3.0-10.0

SECTION 16. OTHER INFORMATION

n.e. = Not established; n.a. = Not applicable/ not available; n.d. = Not determined; TLV = Threshold Limit Value; PEL = Permissible Exposure Limit; OSHA = Occupational Safety and Health Administration; ACGIH = American Conference of Governmental Industrial Hygienists; LEL = Lower Explosive Limit; UEL = Upper Explosive Limit; ppm = parts per million; TSCA = Toxic Substances Control Act; SARA = Superfund Amendments and Reauthorization Act; Dot = Department of Transportation.

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DATE: 1/10/07

SUPERCEDES: 9/22/04

All terms and abbreviations have been defined in various government publications, or are standard chemical terms used by IUPAC.

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