



MOMENTIVE
performance materials

**SS4155 01P-Bottle (0.850 Lbs-0.386 Kg)
SILICON PRIMER MIXTURE**

Material Safety Data Sheet



Version: 1.5
11/23/2009

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By: Waterford Plant
260 Hudson River Rd
Waterford NY 12188

Revised: 11/23/2009

Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
CHEMTREC 1-800-424-9300

Chemical Family/Use: Primer
Formula: Primer solution.

HMIS

Flammability: 3 Reactivity: 1 Health: 2

NFPA

Flammability: 3 Reactivity: 1 Health: 2

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! Flammable liquid and vapor. Irritating to eyes, respiratory system and skin. Harmful by inhalation and if swallowed.

Form: liquid

Color: blue

Odor: Petroleum distillates

POTENTIAL HEALTH EFFECTS

INGESTION

Harmful if swallowed. Causes vomiting, nausea, and diarrhea. Irritation of the mouth, throat, and stomach. Aspiration hazard if swallowed - can enter lungs and cause damage.

SKIN

May cause moderate skin irritation. May cause skin defatting with prolonged exposure.

INHALATION

Harmful if inhaled. Causes irritation of the mouth, nose, and throat. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Can cause unconsciousness if inhaled. Massive inhalation immediately dangerous to life and health.

EYES

Causes redness and tearing. Blurred vision May cause severe eye irritation.

MEDICAL CONDITIONS AGGRAVATED

Respiratory disorder Central nervous system disorders. Pre-existing liver or kidney disorders.
Skin disorders.



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SUBCHRONIC (TARGET ORGAN)

Dermatitis; Central nervous system damage.; Liver and kidney damage.; May cause the development of tissue masses through long term exposure.

CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

ROUTES OF EXPOSURE

Inhalation; dermal; Eyes; Oral.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
<u>A. HAZARDOUS</u>		
ETHYL SILICATE 40	11099-06-2	1 - 5 %
1-butanol, titanium(4+)salt	5593-70-4	5 - 10 %
STODDARD SOLVENT	8052-41-3	60 - 100 %
Tetraethyl Silicate	78-10-4	10 - 30 %
1,2,4-TRIMETHYLBENZENE	95-63-6	1 - 5 %

B. NON-HAZARDOUS

4. FIRST AID MEASURES

INGESTION

Do NOT induce vomiting. To avoid aspiration should vomiting occur, have the person lean forward.

SKIN

Wash off with soap and water. If skin irritation persists, call a physician.

INHALATION

Move person to fresh air, keep warm, keep at rest. Artificial respiration and/or oxygen may be necessary. Obtain medical attention.

EYES

If in eyes, rinse with water for 15 minutes.



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NOTE TO PHYSICIAN

Treatment is symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

FLASH POINT:	36.60 °C; 98 °F
METHOD:	closed cup
IGNITION TEMPERATURE:	245.00 °C; 473 °F
FLAMMABLE LIMITS IN AIR - LOWER (%):	1.00 %(V).
FLAMMABLE LIMITS IN AIR - UPPER (%):	6.00 %(V).

SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE

Sensitivity to static discharge is expected; material has a flash point below 200 F.

EXTINGUISHING MEDIA

All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING PROCEDURES

Flammable, Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

PRECAUTIONS FOR FIRE-FIGHTING

Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point., Vapor may be ignited by static sparks., Use proper bonding and grounding during material transfer.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Warn other workers of spill. Remove all sources of ignition. Wear proper protective equipment as specified in the protective equipment section. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal. Increase area ventilation. Person not trained should evacuate area.

ENVIRONMENTAL PRECAUTIONS

Do not flush into surface water or sanitary sewer system.



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7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Warning! Flammable Avoid contact with skin, eyes and clothing. Keep away from children.

STORAGE

Store away from heat, sources of ignition, and incompatibles. Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Use only in well-ventilated areas.; Eyewash stations; Showers; Exhaust ventilation

RESPIRATORY PROTECTION

Use approved NIOSH respiratory protection if TLV exceeded or overexposure is likely.

PROTECTIVE GLOVES

Impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION

Face-shield; Safety glasses; Monogoggles

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

<u>Component</u>	<u>CAS RN</u>	<u>Source</u>	<u>Value</u>
STODDARD SOLVENT	8052-41-3	ACGIH, TWA	100 ppm
STODDARD SOLVENT	8052-41-3	OSHA Z1, PEL	500 ppm; 2,900 mg/m3
Tetraethyl Silicate	78-10-4	ACGIH, TWA	10 ppm
Tetraethyl Silicate	78-10-4	OSHA Z1, PEL	100 ppm; 850 mg/m3
1,2,4-TRIMETHYLBENZENE	95-63-6	ACGIH, TWA	25 ppm

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).



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9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F:	not applicable
VAPOR PRESSURE (20 C) (MM HG):	not applicable
VAPOR DENSITY (AIR=1):	no data available
FREEZING POINT:	< -34 °C; -29 °F
PHYSICAL STATE:	liquid
ODOR:	Petroleum distillates
COLOR:	blue
EVAPORATION RATE (BUTYL ACETATE=1):	no data available
SPECIFIC GRAVITY (WATER=1):	0.81
DENSITY:	Unknown
ACID / ALKALINITY (MEQ/G):	ESS.NEUT
pH:	not applicable
SOLUBILITY IN WATER (20 C):	negligible
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Soluble in toluene
VOLATILE ORGANIC CONTENT:	90 %(m)
VOC EXCL. H2O & EXEMPTS (G/L):	765 g/l

10. STABILITY AND REACTIVITY

STABILITY

Stable

HAZARDOUS POLYMERIZATION

Will not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide (CO₂); Carbon monoxide; Silicon dioxide.

INCOMPATIBILITY (MATERIALS TO AVOID)

Contact with oxidizing agents.

CONDITIONS TO AVOID

Keep away from heat and sources of ignition. Avoid any source of ignition due to flammability.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL

Remarks: Not applicable.

ACUTE DERMAL

Remarks: Not applicable.



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ACUTE INHALATION

Remarks: not applicable

OTHER

None.

SENSITIZATION

no data available

SKIN IRRITATION

no data available

EYE IRRITATION

no data available

MUTAGENICITY

Unknown

12. ECOLOGICAL INFORMATION

ECOTOXICITY

no data available

DISTRIBUTION

no data available

CHEMICAL FATE

no data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME:	FLAMMABLE LIQUID, N.O.S.(SOLVENT NAPHTHA, TETRAETHYL SILICATE)
DOT HAZARD CLASS:	3
DOT LABEL (S):	3
UN/NA NUMBER:	UN1993
PACKING GROUP:	III



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IMDG SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.(SOLVENT NAPHTHA, TETRAETHYL SILICATE)
CLASS: 3
IMDG-LABELS: 3
UN NUMBER: UN1993
PACKING GROUP: III
EMS No: F-E; S-E

IATA: FLAMMABLE LIQUID, N.O.S.(SOLVENT NAPHTHA, TETRAETHYL SILICATE)
CLASS: 3
ICAO-LABELS: 3
UN NUMBER: UN1993
PACKING GROUP: III

15. REGULATORY INFORMATION

Inventories

Canada DSL Inventory	y (positive listing)	
Japan Inventory of Existing & New Chemical Substances (ENCS)	y (positive listing)	
China Inventory of Existing Chemical Substances	y (positive listing)	
Australia Inventory of Chemical Substances (AICS)	y (positive listing)	
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	y (positive listing)	
EU list of existing chemical substances	y (positive listing)	
Canada NDSL Inventory	n (Negative listing)	
Korea Existing Chemicals Inventory (KECI)	y (positive listing)	
TSCA list	y (positive listing)	On TSCA Inventory

For inventories that are marked as quantity restricted or special cases, please contact Momentive.

US Regulatory Information

SARA (311,312) HAZARD CLASS

Acute Health Hazard; Fire Hazard

SARA (313) CHEMICALS

95-63-6, 1,2,4-Trimethylbenzene.



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CALIFORNIA PROPOSITION 65

Warning! This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
64-17-5, Ethanol.

Canadian Regulatory Information

WHMIS HAZARD CLASS

B2 - Flammable liquid
D2B - Toxic Material Causing Other Toxic Effects

Other

SCHDLE B/HTSUS: 3208.90 Polymer Solution

ECCN: EAR99

16. OTHER INFORMATION

OTHER

C = ceiling limit NEGL = negligible EST = estimated NF = none found NA = not applicable
UNKN = unknown NE = none established REC = recommended ND = none determined
V = recommended by vendor SKN = skin TS = trade secret R = recommended
MST = mist NT = not tested STEL = short term exposure limit ppm = parts per million
ppb = parts per billion By-product = reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2)., These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.