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# Material Safety Data Sheet

Version: 1.2  
05/28/2007

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

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

**Revised:** 05/28/2007

**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      Prot. Equipm.:

#### NFPA

Flammability: 3      Reactivity: 1      Health: 2      Special Haz.:

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
<b><u>A. HAZARDOUS</u></b>		
Ethyl silicate	11099-06-2	1 - 5 %
1-BUTANOL, TITANIUM(4+)SALT	5593-70-4	5 - 10 %
Stoddard Solvent	8052-41-3	60 - 90 %
Tetraethylsilicate	78-10-4	10 - 30 %
1,2,4-Trimethylbenzene	95-63-6	1 - 5 %

#### **B. NON-HAZARDOUS**

### 3. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

WARNING! Flammable liquid and vapor. Irritating to eyes, respiratory system and skin. Harmful by inhalation and if swallowed. May cause adverse liver, kidney, and CNS effects. May cause adverse cardiac effects.

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

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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.

#### 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.

## 4. FIRST AID MEASURES

#### INGESTION

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury. To avoid aspiration should vomiting occur, have the person lean forward.

#### SKIN

Wash off with soap and water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation persists.

#### INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

#### EYES

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

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SILICON PRIMER MIXTURE**

**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.

**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.

**7. HANDLING AND STORAGE**

**STORAGE**

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

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Warning! Flammable Use ground strap and appropriate precautions for dispensing flammable liquids. Use only spark-proof and explosion-proof tools and equipment. Avoid contact with skin, eyes and clothing. Keep away from children. Attention: Not for injection into humans. Recommended storage in original container below 30°C (85°F).

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#### 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

Component	CAS RN	Source	Value
Stoddard Solvent	8052-41-3	ACGIH, TWA	100 ppm
Stoddard Solvent	8052-41-3	OSHA Z1, PEL	500 ppm; 2,900 mg/m <sup>3</sup>
Tetraethylsilicate	78-10-4	ACGIH, TWA	10 ppm
Tetraethylsilicate	78-10-4	OSHA Z1, PEL	100 ppm; 850 mg/m <sup>3</sup>
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

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).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>BOILING POINT - C &amp; F:</b>	Not applicable
<b>VAPOR PRESSURE (20 C) (MM HG):</b>	Not applicable
<b>VAPOR DENSITY (AIR=1):</b>	No data available
<b>FREEZING POINT:</b>	<-34
<b>MELTING POINT:</b>	<-34
<b>PHYSICAL STATE:</b>	Liquid
<b>ODOR:</b>	Petroleum distillates
<b>COLOR:</b>	blue
<b>EVAPORATION RATE (BUTYL ACETATE=1):</b>	No data available
<b>SPECIFIC GRAVITY (WATER=1):</b>	0.81
<b>DENSITY:</b>	Unknown

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ACID / ALKALINITY (MEQ/G):	ESS.NEUT
pH:	Not applicable
VOLATILE ORGANIC CONTENT (VOL):	90 %(m)
SOLUBILITY IN WATER (20 C):	negligible
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Soluble in toluene
VOC EXCL. H2O & EXEMPTS (G/L):	765

#### 10. STABILITY AND REACTIVITY

##### STABILITY

Stable

##### HAZARDOUS POLYMERIZATION

Will not occur

##### HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide (CO<sub>2</sub>); 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.

##### ACUTE INHALATION

Remarks: Not applicable.

##### OTHER

None.

##### SENSITIZATION

No data available

##### SKIN IRRITATION

No data available

##### EYE IRRITATION

No data available

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#### MUTAGENICITY

Unknown

### 12. ECOLOGICAL INFORMATION

#### ECOTOXICOLOGY

No data available

#### CHEMICAL FATE

No data available

#### DISTRIBUTION

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)  
**DOT HAZARD CLASS:** 3  
**DOT LABEL (S):** 3  
**UN/NA NUMBER:** UN1993  
**PACKING GROUP:** III

**IMDG SHIPPING NAME:** FLAMMABLE LIQUID, N.O.S.(SOLVENT NAPHTHA)  
**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)  
**CLASS:** 3  
**ICAO-LABELS:** 3  
**UN NUMBER:** UN1993  
**PACKING GROUP:** III

### 15. REGULATORY INFORMATION

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#### 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)
TSCA list	y (Positive listing)
Korea Existing Chemicals Inventory (KECI)	n (Negative listing)

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

#### US Regulatory Information

##### **CERCLA**

##### **PRODUCT COMPOSITION**

##### **Chemical**

##### **CERCLA Reportable Quantity**

##### **CLEAN AIR ACT**

##### **CLEAN WATER ACT**

##### **SARA SECTION 302**

##### **SARA (311,312) HAZARD CLASS**

Fire Hazard; Acute Health Hazard; Chronic Health Hazard

##### **SARA (313) CHEMICALS**

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

#### Canadian Regulatory Information

##### **WHMIS HAZARD CLASS**

Flammable Liquid, D2B TOXIC MATERIALS

#### Other

##### **SCHDLE B/HTSUS:**

3208.90 Polymer Solution

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ECCN:

EAR99

#### 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.

### 16. OTHER INFORMATION

#### OTHER

C = ceiling limit applicable      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.