

**SS4155
SILICON PRIMER MIXTURE****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Manufacturer Name: Momentive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Revised: 02/18/2013
Prepared by Product Safety Team
CHEMTREC 1-800-424-9300
MSDS Contact 1-888-443-9466
Information 4information@momentive.com

Chemical Family/Use: Primer

Formula: Primer solution.

HMIS

Health: 2 Flammability: 3 Reactivity: 1

NFPA

Health: 2 Flammability: 3 Reactivity: 1

2. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

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

Form: Liquid

Form: Blue

Odor: Faint

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

Defatting, drying and cracking of skin.

INHALATION

Harmful if inhaled. Causes irritation of the mouth, nose, and throat. High concentrations of vapors may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Can cause unconsciousness if inhaled. Massive inhalation immediately dangerous to life and health.

EYES

Causes redness and tearing. Visual disturbances including blurred vision

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Central nervous system disorders. Skin disorders and allergies.

SUBCHRONIC (TARGET ORGAN)

Dermatitis; Central nervous system damage.

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

Dermal; Eye; Oral

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS-No.</u>	<u>WGT. %</u>
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A. HAZARDOUS

STODDARD SOLVENT	8052-41-3	60 - 100 %
Tetraethyl Silicate	78-10-4	10 - 30 %
1-butanol, titanium(4+)salt	5593-70-4	5 - 10 %
1,2,4-TRIMETHYLBENZENE	95-63-6	1 - 5 %
Silicic acid, ethyl ester	11099-06-2	1 - 5 %

B. NON-HAZARDOUS**4. FIRST AID MEASURES****INGESTION**

Do NOT induce vomiting.

SKIN

Wash area with soap and water. If skin irritation occurs: Get medical advice/attention.

INHALATION

Move into fresh air and keep at rest. Get medical attention.

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5. FIRE-FIGHTING MEASURES

FLASH POINT: 36.60 °C; 98 °F
METHOD Closed Cup
IGNITION TEMPERATURE: 245.00 °C; 473 °F
FLAMMABLE LIMITS LEL: 1.00 %(V).
FLAMMABLE LIMITS UEL: 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 may travel considerable distance to a source of ignition and flash back.

6. ACCIDENTAL RELEASE MEASURES**ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

Warn other workers of spill. 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. Keep unauthorized personnel away.

ENVIRONMENTAL PRECAUTIONS

Do not allow runoff to sewer, waterway or ground.

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

Warning! Flammable Avoid contact with eyes, skin, and clothing. Keep out of reach of children.

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Keep away from heat, sparks and open flame. Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**ENGINEERING CONTROLS**

Use only in well-ventilated areas.

RESPIRATORY PROTECTION

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

PROTECTIVE GLOVES

Chemical resistant gloves

EYE AND FACE PROTECTION

Face shield; Safety glasses with side shields; Monogoggles

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

<u>Component</u>	<u>CAS-No.</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/m ³
Tetraethyl Silicate	78-10-4	ACGIH, TWA	10 ppm
Tetraethyl Silicate	78-10-4	OSHA Z1, PEL	100 ppm; 850 mg/m ³
1,2,4-TRIMETHYLBENZENE	95-63-6	ACGIH, TWA	25 ppm
Ethanol	64-17-5	OSHA Z1, PEL	1,000 ppm; 1,900 mg/m ³
Ethanol	64-17-5	ACGIH, STEL	1,000 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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BOILING POINT (°C):	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:	Faint
Color:	Blue
EVAPORATION RATE (BUTYL ACETATE=1):	No data available.
SPECIFIC GRAVITY:	0.81
DENSITY:	Calculated 0.86 g/cm3
ACID / ALKALINITY (MEQ/G):	neutral
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.

Hazardous polymerisation does not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide; Silicon dioxide.

INCOMPATIBLE MATERIALS

Oxidizing agents.

CONDITIONS TO AVOID

Keep away from sources of ignition - No smoking. Keep away from sources of ignition - No smoking.

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

No data available.

12. ECOLOGICAL INFORMATION**ECOTOXICITY**

No data available.

DISTRIBUTION

No data available.

CHEMICAL FATE

No data available.

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

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

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UN/NA NUMBER:	UN1993
PACKING GROUP:	III
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**

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

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

US Regulatory Information

CERCLA Reportable quantity 126904 lbs

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Ethanol

Chemical

64-17-5

CERCLA Reportable Quantity

Reportable quantity: 100 LBS

SARA (311,312) HAZARD CLASS

Fire Hazard; Acute Health Hazard

SARA (313) CHEMICALS

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

CALIFORNIA PROPOSITION 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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.