

SS4004P 01P-Bottle (0.900 LBS-0.409 KG) Silicone primer solution

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

Revised: 03/28/2008

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

Chemical Family/Use: Silicone Primer
Formula: Silicone resin in solvent(s)

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, in contact with skin and if swallowed. May cause adverse liver, kidney, and CNS effects.

Form: Liquid Color: pink Odor: Pungent/Solvent

POTENTIAL HEALTH EFFECTS

INGESTION

Harmful if swallowed. Irritation of the mouth, throat, and stomach. Liver and kidney injuries may occur. Aspiration hazard if swallowed - can enter lungs and cause damage. Causes vomiting, nausea, and diarrhea. May cause central nervous system effects.

SKIN

Harmful if absorbed through the skin. Causes drying of the skin. May be absorbed through the skin and contribute to the symptoms listed under "Ingestion". May cause moderate skin irritation.

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. Coughing, chest pains, and breathing difficulty may occur. Massive inhalation immediately dangerous to life and health.

EYES

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

MEDICAL CONDITIONS AGGRAVATED

Respiratory disorder Central nervous system disorders. Gastrointestinal disorders. Eye disorders.

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Pre-existing liver or kidney disorders. Skin disorders.

SUBCHRONIC (TARGET ORGAN)

Respiratory disorder; Dermatitis; Central nervous system damage.; Liver and kidney damage.; Eye damage.; Anemia; Effect on adrenal glands; Effect on the heart.; Over exposure may result in cardiac abnormality.; This product contains a component that is tumorigenic.; Laboratory rats exposed to prolonged high xylene concentrations suffered hearing loss. Rats exposed to xylene vapor during pregnancy have shown embryo/fetotoxic effects. Mice exposed orally to doses of xylene which produced maternal toxicity have also shown embryo/fetotoxic effects.; This product contains a component which is considered a teratogen or embryotoxin under the Canadian WHMIS act.

CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is listed as a carcinogen or potential carcinogen by NTP, IARC or OSHA Yes No In a National Toxicology Program (NTP) 2-year study of Ethylbenzene in rats and mice, there was clear evidence of carcinogenic activity in male rats, based on increased incidence of renal tubule neoplasms and testicular adenoma. There was some evidence of carcinogenic activity in female rats, based on increases of renal tubule adenoma. In mice, there was also some evidence of carcinogenic activity based on increased incidence of alveolar/bronchiolar neoplasms and hepatocellular neoplasms for males and females, respectively.

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>		
acetone	67-64-1	10 - 30 %
n-BUTANOL	71-36-3	1 - 5 %
Xylene Isomers Mixture	1330-20-7	10 - 30 %
Ethylbenzene	100-41-4	5 - 10 %
2-Propanol	67-63-0	10 - 30 %
Tetraethyl Silicate	78-10-4	1 - 5 %
<u>B. NON-HAZARDOUS</u>		
Polyalkylsiloxane	68037-74-1	10 - 30 %

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4. FIRST AID MEASURES

INGESTION

Call a physician or Poison Control Centre immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If victim is conscious, give 2-4 glasses of water. Never induce vomiting unless specifically directed by qualified medical personnel.

SKIN

Wash with soap and water. Get medical attention if irritation or symptoms from Section 3 develop.

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.

NOTE TO PHYSICIAN

Treatment is symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

FLASH POINT: -12.00 °C; 10 °F
METHOD: closed cup
IGNITION TEMPERATURE: > 538 °C; 1000 °F
FLAMMABLE LIMITS IN AIR - LOWER (%): 2.10 %(V).
FLAMMABLE LIMITS IN AIR - UPPER (%): 12.00 %(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

Carbon dioxide (CO₂), Dry chemical, Alcohol foam, Use water to dilute spills and flush away from sources of ignition.

SPECIAL FIRE FIGHTING PROCEDURES

Extremely flammable., Pressure inside container is increased when heated, and may cause explosion., Vapors may form explosive mixture with air., Evacuate area and fight fire from a safe distance., Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing., Fire may produce poisonous or irritating gas, fumes, or vapor., Dangerous when exposed to heat or flame., Vapors may concentrate in confined areas.

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6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

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

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Use only in well-ventilated areas. Use ground strap and appropriate precautions for dispensing flammable liquids. Use only spark-proof and explosion-proof tools and equipment. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

STORAGE

Store away from heat, sources of ignition, and incompatibles. Keep container tightly closed. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

Eyewash stations; Showers; Exhaust ventilation

RESPIRATORY PROTECTION

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

PROTECTIVE GLOVES

Impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION

Monogoggles.; Face-shield

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

Component	CAS RN	Source	Value
acetone	67-64-1	ACGIH, TWA	500 ppm

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acetone	67-64-1	ACGIH, STEL	750 ppm
acetone	67-64-1	OSHA Z1, PEL	1,000 ppm; 2,400 mg/m3
acetone	67-64-1	ACGIH,	500 ppm
acetone	67-64-1	ACGIH,	Listed.
acetone	67-64-1	OSHA Z1,	Listed.
n-BUTANOL	71-36-3	ACGIH, Ceiling	50 ppm; 152 mg/m3
n-BUTANOL	71-36-3	ACGIH, SKIN_DES	Can be absorbed through the skin.
n-BUTANOL	71-36-3	OSHA Z1, PEL	100 ppm; 300 mg/m3
n-BUTANOL	71-36-3	ACGIH, TWA	20 ppm
Ethylbenzene	100-41-4	ACGIH, TWA	100 ppm
Ethylbenzene	100-41-4	ACGIH, STEL	125 ppm
Ethylbenzene	100-41-4	OSHA Z1, PEL	100 ppm; 435 mg/m3
2-Propanol	67-63-0	OSHA Z1, PEL	400 ppm; 980 mg/m3
2-Propanol	67-63-0	ACGIH, TWA	200 ppm
2-Propanol	67-63-0	ACGIH, STEL	400 ppm
2-Propanol	67-63-0	ACGIH,	Listed.
2-Propanol	67-63-0	OSHA Z1,	Listed.
Xylene Isomers Mixture	1330-20-7	ACGIH, TWA	100 ppm; 434 mg/m3
Xylene Isomers Mixture	1330-20-7	ACGIH, STEL	150 ppm; 651 mg/m3
Xylene Isomers Mixture	1330-20-7	OSHA Z1, PEL	100 ppm; 435 mg/m3
Xylene Isomers Mixture	1330-20-7	ACGIH, TWA	100 ppm
Xylene Isomers Mixture	1330-20-7	ACGIH, STEL	150 ppm
Tetraethyl Silicate	78-10-4	ACGIH, TWA	10 ppm
Tetraethyl Silicate	78-10-4	OSHA Z1, PEL	100 ppm; 850 mg/m3

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

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
MELTING POINT:	< -34 °C; -29 °F

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PHYSICAL STATE:	Liquid
ODOR:	Pungent/Solvent
COLOR:	pink
EVAPORATION RATE (BUTYL ACETATE=1):	> 1
SPECIFIC GRAVITY (WATER=1):	ca. 0.80
DENSITY:	ca. 0.855 g/cm ³
ACID / ALKALINITY (MEQ/G):	~7
pH:	Not applicable
VOLATILE ORGANIC CONTENT (VOL):	56.0 %(m)
SOLUBILITY IN WATER (20 C):	Slowly Hydrolyzes
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Soluble, Aromatic Solvent
VOC EXCL. H₂O & EXEMPTS (G/L):	636

10. STABILITY AND REACTIVITY

STABILITY

Stable

HAZARDOUS POLYMERIZATION

Will not occur

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide (CO₂); Carbon monoxide; Silicon dioxide.; Oxides of nitrogen.

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: Unknown

ACUTE DERMAL

Remarks: Unknown

ACUTE INHALATION

Remarks: Unknown

OTHER

Xylene has been shown to cause embryofetal toxicity and birth defects in laboratory animals, but only at doses which also cause maternal toxicity, In higher concentrations, xylene is irritating to eyes and the respiratory tract, causes drowsiness and may cause central-nervous effects (headache etc.),.

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Animals exposed repeatedly to high vapor concentrations (800 ppm or greater) of mixed xylenes suffered hearing loss., Long-term exposure to xylene can cause chronic headache, chest pain, nausea, mental confusion, breathing difficulties, heartbeat abnormalities, numbness in limbs, fever, malaise, and fatigue. Skin irritation can occur. Repeated exposures at high concentrations may cause injury to the liver and kidneys., Isopropyl alcohol has produced fetotoxic effects and developmental effects in animals following oral administration., Isopropyl alcohol has produced developmental effects and reduced fetal weight in animals following inhalation exposure., Development of cataracts has been reported in laboratory animals after prolonged repeated skin exposure to acetone., Ethylbenzene has been shown to cause cancer in laboratory animals. The relevance of this finding to human is uncertain. IARC (International Agency for Research on Cancer) has classified ethylbenzene as a possible human carcinogen., Laboratory studies show that tetraethyl orthosilicate may be a possible weak mutagen.

SENSITIZATION

No data available

SKIN IRRITATION

No data available

EYE IRRITATION

No data available

MUTAGENICITY

Unknown

OTHER EFFECTS OF OVEREXPOSURE

More severe effects if alcohol is consumed., Stimulants such as epinephrine may induce ventricular fibrillation., Interactions with drugs may occur. May impair performance and alertness., This product contains a component that showed unexpected acute toxicity to pregnant rabbits in a gavage study conducted by the Chemical Manufacturers Association. There were no unexpected toxic effects in pregnant rats exposed in the same study. No developmental effects were noted in either study. Effect levels in rabbits were several times the maximum exposure which would occur at the TLV for this component.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

No data available

DISTRIBUTION

No data available

CHEMICAL FATE

No data available

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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.(ACETONE, ISOPROPANOL)
DOT HAZARD CLASS: 3
DOT LABEL (S): 3
UN/NA NUMBER: UN1993
PACKING GROUP: II

IMDG SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.(ACETONE, ISOPROPANOL)
CLASS: 3
IMDG-LABELS: 3
UN NUMBER: UN1993
PACKING GROUP: II
EMS No: F-E; S-E

IATA: FLAMMABLE LIQUID, N.O.S. (ACETONE, ISOPROPANOL)
CLASS: 3
ICAO-LABELS: 3
UN NUMBER: UN1993
PACKING GROUP: II

15. REGULATORY INFORMATION

Inventories

Canada DSL Inventory	y (Positive listing)	
Japan Inventory of Existing & New Chemical Substances (ENCS)	y (Positive listing)	
Korea Existing Chemicals Inventory (KECI)	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)	
TSCA list	y (Positive listing)	On TSCA Inventory
EU list of existing chemical	y (Positive listing)	

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substances

Canada NDSL Inventory n (Negative listing)

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

US Regulatory Information

CERCLA

Reportable quantity: 395 lbs

PRODUCT COMPOSITION

Isopropyl Alcohol

Chemical

67-63-0

CERCLA Reportable Quantity

Reportable quantity: 100 LBS

SARA (311,312) HAZARD CLASS

Acute Health Hazard; Chronic Health Hazard; Fire Hazard
Acute Health Hazard; Chronic Health Hazard; Fire Hazard

SARA (313) CHEMICALS

71-36-3, n-Butanol 100-41-4, Ethylbenzene 67-63-0, Isopropyl Alcohol 1330-20-7, Xylenes

CALIFORNIA PROPOSITION 65

WARNING! This product contains a chemical known in the State of California to cause cancer.
100-41-4, Ethylbenzene. 71-43-2, Benzene. 108-88-3, Toluene.

Canadian Regulatory Information

WHMIS HAZARD CLASS

Flammable Liquid, D2A VERY TOXIC MATERIALS, D2B TOXIC MATERIALS

Other

SCHDLE B/HTSUS:

3208.90.0000 Paints & varnishes, other

ECCN:

EAR99

16. OTHER INFORMATION

OTHER

C = ceiling limit applicable UNKN = unknown determined V = recommended by vendor recommended MST = mist parts per million ppb = parts per billion NEGL = negligible NE = none established SKN = skin TS = trade secret R = recommended ND = none STEL = short term exposure limit ppm = parts per million 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

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intended use and determine whether they are appropriate.