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# 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 X 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

PRODUCT COMPOSITION	CAS REG NO.	<u>WGT. %</u>	
A. HAZARDOUS			
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 %	
B. NON-HAZARDOUS 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**



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Component	CAS RN	Source	<u>Value</u>
acetone	67-64-1	ACGIH, TWA	500 ppm
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



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VAPOR DENSITY (AIR=1):No data availableFREEZING POINT:< -34 °C; -29 °F</td>MELTING POINT:< -34 °C; -29 °F</td>

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/cm3

ACID / ALKALINITY (MEQ/G): ~7

**pH: VOLATILE ORGANIC CONTENT (VOL):**Not applicable 56.0 %(m)

SOLUBILITY IN WATER (20 C): Slowly Hydrolyzes SOLUBILITY IN ORGANIC SOLVENT (STATE Soluble, Aromatic Solvent

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



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# **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.)., 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:3DOT LABEL (S):3UN/NA NUMBER:UN1993

PACKING GROUP:

**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: ||

# 15. REGULATORY INFORMATION

# **Inventories**

Canada DSL Inventory y (Positive listing)
Japan Inventory of Existing & y (Positive listing)

New Chemical Substances

(ENCS)

Korea Existing Chemicals y (Positive listing)

Inventory (KECI)

China Inventory of Existing y (Positive listing)

Chemical Substances

Australia Inventory of Chemical y (Positive listing)

Substances (AICS)

Philippines Inventory of y (Positive listing)

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Chemicals and Chemical

Substances (PICCS)

TSCA list y (Positive listing) On TSCA Inventory

EU list of existing chemical y (Positive listing)

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<br/>Isopropyl AlcoholChemical<br/>67-63-0CERCLA Reportable Quantity<br/>Reportable quantity: 100 LBS

SARA (311,312) HAZARD CLASS

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

SARA (313) CHEMICALS

71-36-3, n-Butanol100-41-4, Ethylbenzene67-63-0, Isopropyl Alcohol1330-20-7, 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 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



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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.