



MATERIAL SAFETY DATA SHEET

**77 DRAGON COURT
WOBURN, MA 01888
TEL: 781-935-4850**

SECTION 1 PRODUCT IDENTIFICATION

Product Name: **PRIMER 1086**
General Name: Silicone Primer

SECTION 2 COMPOSITION INFORMATION

<u>Components & CAS. No.</u>	<u>Weight %</u>	<u>Exposure Limits</u>
Light aliphatic petroleum solvent naphtha 64742-89-8	65	OSHA PEL TWA 500 ppm for petroleum distillates.
Toluene 108-88-3	< 20	OSHA PEL TWA: 200 ppm, STEL: 500 ppm (10 minute peak/8 hour shift), CEILING: 300 ppm ACGIH TLV TWA: 50 ppm (Skin)
Xylene 1330-20-7	< 10	OSHA PEL TWA: 100 ppm; ACGIH TLV TWA: 100 ppm, STEL: 150 ppm
Titanate Compound Proprietary	< 5	Not Established. See t-butyl alcohol note below.
Silicate Compound Proprietary	< 5	Not Established. See n-propyl alcohol note below.
n-Butyl alcohol 71-36-3	< 5	OSHA PEL TWA: 100 ppm; ACGIH TLV Ceiling: 25 ppm Skin.
Silane Compound Proprietary	< 5	Not Established. See 2-methoxyethanol note below.
Ethylbenzene 100-41-4	< 5	OSHA PEL TWA: 100 ppm. ACGIH TLV TWA: 100 ppm; ACGIH TLV STEL: 125 ppm.

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Notes: t-Butyl alcohol forms on contact with water or humid air. OSHA PEL TWA: 100 ppm; ACGIH TLV TWA: 100 ppm

n-Propyl alcohol is formed on contact with water or humid air. OSHA PEL TWA: 200 ppm; ACGIH TLV TWA: 200 ppm (Skin), STEL: 250 ppm (Skin)

2-Methoxyethanol is formed on contact with water or humid air. Provide adequate ventilation to control exposures within exposure limits. OSHA PEL TWA: 25 ppm (Skin) (0.1 ppm proposed); ACGIH TLV TWA: 5 ppm (Skin)

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Colorless liquid with a strong solvent odor. Flammable liquid. Keep away from heat, sparks and other sources of ignition. May cause severe eye irritation, defatting of skin, and respiratory irritant. Skin absorption hazard. Harmful if inhaled. Chronic health hazards. Refer to other sections of the MSDS for more detail.

HMIS Rating: Health: 2 Flammability: 4 Reactivity: 0

Routes of Entry: Inhalation, skin and eye contact.

Acute Effects

Eye: Contact may cause severe eye irritation and reversible injury lasting several days to a week.

Skin: Prolonged or repeated skin contact may cause defatting or drying of the skin which may lead to irritation and /or dermatitis (rash). May be absorbed through the skin (See Section 2).

Inhalation: Inhalation of high concentrations of solvents may cause respiratory irritation and central nervous system effects progressing from headache, dizziness, staggering gait and confusion to unconsciousness, coma, and death. The severity of these effects will be dependent on the vapor concentration and length of exposure. Inhalation of extremely high concentrations of toluene may cause heart irregularities and cardiac sensitization.

Ingestion: Harmful if swallowed.

Chronic Effects: Chronic overexposure to components of this product has been reported to cause injury to the following organs: blood, lungs, liver, kidney, nervous system and reproductive organs.

Overexposure to n-butyl alcohol has been reported to increase hearing loss and impair vestibular function in workers exposed to concentrations of approximately 110 ppm.

This product contains ethyl benzene. Prolonged or repeated overexposure to ethyl benzene by inhalation may damage the liver, kidneys and bone marrow.

Toxicology studies with laboratory animals and occupational evaluations with humans have found limited evidence of birth defects, low birth weight and delayed growth in offspring resulting from

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repeated exposures to toluene during pregnancy.

Subchronic and chronic inhalations studies with toluene produced kidney and liver damage and hearing loss.

Special Condition Effects: This product may generate 2-methoxy ethanol on contact with water or humid air. Laboratory studies have shown high levels of exposure to 2-methoxy ethanol have resulted in birth defects to laboratory animals.

Aggravated Medical Conditions: Preexisting respiratory conditions may be aggravated.

SECTION 4 FIRST AID MEASURES

Handle in accordance with good industrial hygiene and safety practices by avoiding unnecessary exposure and by removing material from the eyes, skin and clothing.

- Eye: Immediately but gently flush the eyes with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
- Skin: Remove contaminated clothing. Thoroughly wash skin with soap and water for at least 15 minutes. Get immediate medical attention if irritation persists or if symptoms of exposure develop (see SECTION 3 – HAZARDS IDENTIFICATION).
- Inhalation: Remove to fresh air. Get immediate medical attention if irritation persists, breathing becomes difficult or if symptoms (as described in SECTION 3) develop.
- Ingestion: Get immediate medical attention. DO NOT induce vomiting, potential aspiration hazard. Never give anything by mouth to an unconscious, drowsy, or convulsing person.

SECTION 5 FIRE FIGHTING MEASURES

- Flash Point: Not established 59°F
- Autoignition Temp: Not established.
- Flammability Limits: Not established.
- Extinguishing Media: Carbon dioxide, water, water foam, dry chemical.
- Fire Fighting Procedures: Use self-contained breathing apparatus and protective clothing. If large quantities of material are involved, evacuate area and fight fire from a safe distance.
- Unusual Fire Hazards: Decomposition and combustion products may be toxic. Flammable liquid can form flammable/explosive mixture in air at or above the flash point temperature. This product contains solvent with vapors that are heavier than air and can travel along the ground to an ignition source, resulting in a flash back to the source of the vapors.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill response operations must be conducted in accordance with the provisions of 29 CFR 1910.120. Observe all recommendations identified in Sections 5 and 8.

Procedures: Release can create fire/explosive hazard. Determine whether to evacuate personnel or isolate the spill area. Limit access to spill area. Eliminate all sources of ignition. Ventilate the area using explosion-proof equipment. Use only tools approved for use in flammable environments. Prevent the release from entering sewers or waterways. Collect spill material for reuse or salvage. Cover remaining spilled materials with inert material to absorb residue. Transfer liquids and absorbed materials to appropriate containers. Observe all applicable local, state and federal waste management regulations.

SECTION 7 HANDLING AND STORAGE

Handling: Do not allow contact with eyes. Do not allow skin contact. Skin absorption presents a significant route of exposure. Avoid exposure by inhalation. Wash thoroughly after handling and before eating, drinking or smoking. Use with adequate ventilation.

Control static electricity accumulation and discharge by effectively grounding and bonding containers when transferring liquids, and during storage and use. The use of explosion-proof equipment is recommended and may be required.

Storage: Store in a cool, dry location with adequate ventilation. Store in tightly closed container. Keep away from heat, sparks, flames and other ignition sources. Prevent contact and storage with incompatible materials.

Because empty containers may retain product residue and flammable vapors, keep away from heat, spark, or other sources of ignition. Do not cut, weld, drill, grind on or near empty containers. Do not smoke where this product is used or stored.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

The recommendations described in this section are provided as general guidance for minimizing exposure. Because usage conditions vary with customer applications, specific exposure controls should be developed by a person knowledgeable in the intended usage condition and equipment.

Ventilation: Provide local exhaust ventilation to capture vapors or mist generated by the process. Use explosion-proof exhaust ventilation equipment unless a process and equipment evaluation indicates this action is not required. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their exposure limits.

Eyes: Wear safety eye wear including safety glasses with side shields and chemical goggles.

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- Skin:** Wear protective gloves and, if appropriate, chemical resistant clothing to prevent skin contact and possible skin absorption. Wash thoroughly after handling and before eating, drinking or smoking. Remove contaminated clothing or shoes as soon as practical and thoroughly clean before reuse.
- Inhalation:** Use NIOSH/MSHA approved respiratory protection if adequate exhaust ventilation is not provided or air sampling indicates exposure limits are exceeded. The type of respirator selected will depend on the conditions of use. Respiratory protection programs must comply with 29 CFR 1910.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical Form:** Colorless liquid.
Specific Gravity: 0.80
Boiling Point: >95°F
Vapor Pressure (25°C): Not determined.
Vapor Density: Heavier than air.
Solubility in Water: Not determined.
Volatile Content (Wt%): 90 approx. (VOC = 740 grams/liter approx., calculated value)

SECTION 10 STABILITY AND REACTIVITY

- Chemical Stability:** Stable.
Hazardous Polymerization: Will not occur.
- Condition to Avoid:** Avoid storage in open containers, exposure to heat/sparks/open flame or exposure to incompatible substances. Avoid exposure to moist air or water.
- Incompatibilities:** Strong oxidizers, acids, bases, water and moist air.
- Hazardous Decomposition:** Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, silicone dioxide, metal oxides, formaldehyde and traces of incompletely burned carbon products.

SECTION 11 TOXICOLOGY INFORMATION

All available toxicology information has been provided in Section 3 of this document.

SECTION 12 ECOLOGICAL INFORMATION

No data on ecological effects is available.

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SECTION 13 DISPOSAL INFORMATION

Since regulations vary, consult applicable regulations or authorities before disposing of this material.

SECTION 14 TRANSPORTATION INFORMATION

Proper Shipping Name: Flammable Liquid, N.O.S. (Naphtha, Toluene)
Class: 3
UN Number: UN1993
Packing Group: II

SECTION 15 REGULATORY AND MISCELLANEOUS INFORMATION

TSCA: All components of this product are listed on the TSCA inventory.

SARA 313 Chemicals: Toluene 108-88-3 Xylene 1330-20-7 n-Butyl alcohol 71-36-3
Ethyl benzene 100-41-1

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