

# MASTERLINK PLUS

## MATERIAL SAFETY DATA SHEET



### PRODUCT INFORMATION

Master Coating Technologies  
2777 Eagandale Boulevard  
Eagan, MN 55121  
800.898.0219

Medical & Transport Emergency Contact  
INFOTRAC: 1.800.535.5053  
MSDS Date: 02.24.2008  
Supersedes: All Previous

Trade Name: Masterlink

### PHYSICAL DATA

Boiling Range (F): 212 (water)  
Freezing Point (F): 32 (water)  
Vapor Density (Air=1): <1  
Vapor Pressure (mmHg @ 68° F): 17  
Evaporation Rate (Butyl Acetate = 1): 1 (water)

Solubility in Water: Dilutable  
Specific Gravity: 1.2 - 1.3  
% Volatile by Weight: 50.9  
pH Information: 9.0 - 10.0  
Appearance & Odor: Liquid, colors, latex odor

### HAZARDOUS INGREDIENTS

Ingredient	% Concentration by weight	CAS Number
Polyfunctional aziridine	99.7	064265-57-2
N,n-Dimethyl ethanolamine	.03	000108-01-0
Propyleneimine	<0.5 ppm	000075-55-8

Ingredients not precisely identified are either proprietary or non-hazardous. Values are not product specifications.

### HEALTH HAZARD DATA

\* As defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. See Sections 8 and 11 for exposure guidelines and toxicology information.

**IMPORTANT:** While the following effects are associated with this product and are required to be included on the MSDS by the US OSHA Hazard Communications Standard, they are not expected effects during the foreseeable use of this product in 2% concentration as used in Scuffmaster coatings. As used in Scuffmaster coatings, this product shows GREATLY REDUCED hazards, including reduced potential for eye and skin irritation. However, it is still prudent to minimize contact with eyes and skin, as well as to avoid inhalation of coating mist containing this product.

**EMERGENCY OVERVIEW: PALE YELLOW LIQUID. MILD AMINE ODOR. RESPIRATORY IRRITANT. EYE CORROSIVE. CORROSIVE TO THE GASTROINTESTINAL TRACT. MODERATE SKIN IRRITANT. RESPIRATORY SENSITIZER. SKIN SENSITIZER.**

**POTENTIAL HEALTH HAZARDS: Eye:** This product contains a component(s) that is eye corrosive based on animal studies: This product contains a component(s) that is a moderate skin irritant based on animal studies. This product is likely to induce skin sensitization in humans. A component in this product is a known animal skin sensitizer. **Inhalation:** Vapors and/or aerosols of this material will probably irritate mucous membranes, eyes, nose and respiratory passages. This material may induce respiratory allergy/sensitization. Symptoms include: Cough, tightness in chest, and/or asthmatic wheezing. **Ingestion:** In humans, irritation or chemical burns of the mouth, pharynx, esophagus, and stomach can develop following ingestion of this material. Injury may be severe and cause death. The acute oral toxicity of this material is between 500 and 5000 mg/kg. Relative to other materials, this material is classed as slightly toxic by ingestion.

EMERGENCY FIRST AID PROCEDURES

**EYE CONTACT:** Immediately flush eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils and ointments should not be used at this time. Continue the flushing for an additional 15 minutes if a physician is not immediately available. **SKIN CONTACT:** Wash off of skin with plenty of soap and water. If redness, itching or burning sensation develops, get medical attention. Wash contaminated clothing and footwear before reuse. **INGESTION: DO NOT INDUCE VOMITING!** Give one-two glasses of water and refer to medical personnel or take direction from either a physician or poison control center. Never give anything by mouth to an unconscious person. **INHALATION:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel. Note to Physician: Mucosal injury following ingestion of this potentially corrosive material contraindicates the induction of vomiting. Medical personnel should evaluate persons with chronic pulmonary disease before those workers handle this product.

FIRE & EXPLOSION HAZARD DATA

**Flammable Properties:**

Flash Point: > 200°F, 93°C Method: Penske-Martin Closed Tester  
 Autoignition Temperature: No Data

Upper Flammability Limit (UFL): No Data  
 Lower Flammability Limit (LFL): No Data

**Products of Combustion:** Combustion products: Oxides of carbon and nitrogen. **Extinguishing Media:** Water fog, foam, carbon dioxide, dry chemical, halogenated agents. **Fire Fighting Instructions:** Wear self-contained breathing apparatus with full face piece and protective clothing. **Unusual Fire and Explosion Hazard:** Heat/impurities may cause temperature/build pressure/rupture closed containers, spread fire, increase risk of burns/injuries.

ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** Wear skin, eye, and respiratory protection during cleanup. Contain spill. Soak up material with absorbent and shovel into a chemical waste container. Decontaminate with 1% acetic acid solution or one part vinegar to four parts water.

HANDLING & STORAGE

**Handling:** Open large containers in well-ventilated areas to avoid exposure to residual propyleneimine that may have collected in the headspace. Avoid breathing vapors or aerosols. Prevent skin and eye contact. A sensitized individual should not be exposed to the product that caused the sensitization. **Storage:** Keep container tightly sealed. Store in a cool, well ventilated area away from heat, sources of ignition, direct sunlight, acidic materials, anhydrides and strong oxidizers. Avoid contamination with acidic materials, heat, direct sunlight, ultraviolet radiation, strong oxidizing conditions or freezing conditions.

EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines:** No ACGIH TLV or OSHA PEL assigned to this product Minimize exposure in accordance with good hygiene practices. **Engineering Controls:** Use permitted ventilation adequate to maintain safe levels. Provide general dilution of local exhaust ventilation to remove solid airborne particles of overspray during spray application and to remove decomposition products during welding or flame cutting on surfaces coated with this product.

We assign NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he or she must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.\*

**NFPA Rating: Health = 3 Flammability = 1 Reactivity = 1 Special = No Data**

**\*\*HMIS Rating: Health = 1 Flammability = 0 Reactivity = 0 Personal Protection = B**

\* This information is intended solely for the use of individuals trained in the particular hazard rating system.

\*\* See appropriate MSDS section.

PROTECTIVE EQUIPMENT

**IMPORTANT: While the following effects are associated with this product and are required to be included on the MSDS by the US OSHA Hazard Communications Standard, they are not expected effects during the foreseeable use of this product in 2% concentration as used in Scuffmaster coatings. As used in Scuffmaster coatings, this product shows GREATLY REDUCED hazards, including reduced potential for eye and skin irritation. However, it is still prudent to avoid inhalation of coating mist containing this product, as well as to minimize contact with eyes and skin.**

**RESPIRATORY PROTECTION:** If needed, use NIOSH certified respirator for organic vapors, mists and fumes. Any person who may be exposed to this material in the form of an aerosol or mist from spray operations shall, at a minimum, wear a National Institute for Occupational Safety and Health-approved, category 21c respirator, excluding single use or disposable types, in accordance with 30 CFR 11.130 Subpart K. The respirator shall be equipped with high efficiency particulate filters for maximum protection, unless an air-supplied respirator is selected. Use of this respirator shall be according to Occupational Safety and Health Administration and Mine Safety and Health Administration Regulations at 29 CFR 1910.134 and 30 CFR 11, respectively. If a full-face type respirator is selected and worn, the chemical safety goggles requirement is waived during spray operations. **PROTECTIVE CLOTHING:** Take all precautions to prevent skin contact. Use gloves, arm covers and apron determined to be impervious under the conditions of use. Additional protection, such as full body suit and boots, may be required depending on conditions. Remove contaminated clothing and wash before re-wearing. Wash separately from other laundry. **EYE PROTECTION:** Chemical tight goggles and full face shield.

PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b> Liquid	<b>Melting Point:</b> No Data	<b>pH:</b> No Data Basic
<b>Appearance:</b> Pale Yellow	<b>Vapor Pressure (mm Hg at 20°C):</b> No Data	<b>Specific Gravity:</b> 1.07
<b>Odor:</b> Mild amine	<b>Vapor Density (air = 1):</b> > 1.0	<b>Bulk Density:</b> No Data
<b>Odor Threshold:</b> No Data	<b>Solubility in Water:</b> Dispersible	<b>% Volatile by Volume:</b> 1
<b>Boiling Range:</b> No Data	<b>Solubility in Other:</b> No Data	<b>VOC (%):</b> 0.50
<b>Decomposition Temperature:</b> No Data	<b>Octanol/Water Partition Coefficient:</b> No Data	<b>Viscosity:</b> No Data

STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions. Unstable at elevated temperatures and pressures, or may react with water or acids with some release of energy, but not violently. **Conditions to Avoid:** Avoid contamination with acidic materials, heat, direct sunlight, ultraviolet radiation, strong oxidizing conditions and freezing conditions. Incompatibility: Acidic materials, anhydrides and strong oxidizers. Hazardous polymerization: May occur if mixed with acidic material. Hazardous decomposition products: Oxides of carbon and nitrogen.

TOXICOLOGICAL INFORMATION

**Regulated Carcinogen(s):** This product contains no components present at concentrations equal to or greater than 0.1% listed by IARC, OSHA, NTP or ACGIH as a carcinogen. **Mutagenicity:** Polyfunctional aziridine: Positive mutagenicity activity has been reported on the aziridine compounds. ( However, mutagenicity is negative at 2% concentration used in Scuffmaster coating applications. )

ECOLOGICAL INFORMATION

**ECOTOXICITY:** No Data. **Environmental Fate:** No Data **Other:** No Data

DISPOSAL METHOD

Disposal Method: Discarded product is not a hazardous waste under RCRA, but may be regulated by other jurisdictions. Incinerate in approved facility. Do not incinerate in closed containers. Dilute with clean, low viscosity fuel. Untreated material should not be released to the environment. Container Disposal: Empty container retains potentially hazardous residue. Observe all hazard precautions. May contain corrosive material. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

REGULATION

Not regulated by the US DOT.

REGULATION 2

**TSCA ( Toxic Substances Control Act ):** All ingredients are on the TSCA Chemical Substances Inventory. **SARA Title III ( Emergency Planning and Community Right-To-Know Act ):** 313 Reportable ingredients: This product does not contain any chemical subject to the reporting requirements of SARA Section 313. **California Proposition 65 WARNING.** This product contains a chemical known to the State of California to cause cancer. **Product Use:** Resins for coatings applications. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. **WHMIS Classifications:** Class D – Division 2A – Very Toxic & Class D – Division 2B – Toxic. **California Proposition 65:** NONE.

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**Disclaimer:** The information in this MSDS was obtained from sources we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or completeness. **The conditions or handling, storage, use and disposal of the product** are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. **Disposal of containers** should be in accordance with applicable federal, state and local laws and regulations.

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