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HIGH PERFORMANCE  
TOPICAL SYSTEM

## **MSDS, Part B – Hardener**

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**MATERIAL SAFETY DATA SHEET (Barrier-1 High Performance Topical System 1503, Part B, Primer Hardener)**

***EMERGENCY CONTACT: (877) 224-5850***

### **SECTION I. IDENTIFICATION**

**PRODUCT NAME:** Barrier-1 High Performance Topical System 1503, Part B, Primer Hardener

**CHEMICAL FAMILY:** EPOXY HARDENER

**PRODUCT TYPE:** EPOXY HARDENER

**IMPORTANT:** THIS MATERIAL WILL NOT BE SOLD FOR USE IN PRODUCTS FOR WHICH PROLONGED CONTACT WITH MUCOUS MEMBRANES, ABRADED SKIN, OR IMPLANTATION WITHIN THE HUMAN BODY IS SPECIFICALLY INTENDED. BECAUSE OF THE WIDE RANGE OF SUCH POTENTIAL USES, WOLVERINE COATINGS CORPORATION IS NOT ABLE TO RECOMMEND THIS MATERIAL AS SAFE AND EFFECTIVE FOR SUCH USES AND ASSUMES NO LIABILITY FOR ANY SUCH USES.

**HAZARD STATEMENT:** THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200. THIS PRODUCT IS CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.

### **SECTION II. HAZARDOUS INGREDIENTS**

**SPECIFIC CHEMICAL NAME:** FORMULATED MODIFIED AMINE COMPOSITION.

SPECIFIC IDENTITY OF THIS COMPONENT WITHHELD AS TRADE SECRET.

CAS# - CONFIDENTIAL

**EXPOSURE LIMITS:**

OSHA PEL - NOT ESTABLISHED

ACGIH TLV - NOT ESTABLISHED

CARCINOGENICITY: THIS CHEMICAL HAS NOT BEEN REVIEWED FOR CARCINOGENICITY BY NTP., IARC, OR OSHA.

### **SECTION III. PHYSICAL DATA**

**APPEARANCE :** YELLOW LIQUID

**DECOMPOSITION TEMP:** > 200 C

**VAPOR PRESSURE:** 17.70 mmHg AT 70°F

**BOILING POINT:** >212 °F

**SOLUBILITY IN WATER:** COMPLETELY SOLUBLE

**PH:** 11.2

**SPECIFIC GRAVITY:** 1.08

**DENSITY:** 67.422 LB/FT<sup>3</sup> AT 70°F

**VISCOSITY:** 400 mPa.s AT 77°F

## SECTION IV. FIRE AND EXPLOSION DATA

**FLASHPOINT:** 104 °C

**EXTINGUISHING MEDIA:** ALCOHOL-RESISTANT FOAM, CARBON DIOXIDE (CO<sub>2</sub>), DRY CHEMICAL, DRY SAND, LIMESTONE POWDER

**SPECIAL FIRE FIGHTING PROCEDURES:** USE PERSONAL PROTECTIVE EQUIPMENT. USE SELF-CONTAINED BREATHING APPARATUS IF NECESSARY.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** MAY GENERATE AMMONIA GAS. MAY GENERATE TOXIC NITROGEN OXIDE GASES. USE OF WATER MAY RESULT IN THE FORMATION OF VERY TOXIC AQUEOUS SOLUTIONS. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES. INCOMPLETE COMBUSTION MAY FORM CARBON MONOXIDE. BURNING PRODUCES OBNOXIOUS AND TOXIC FUMES. DOWNWIND PERSONNEL MUST BE EVACUATED.

## SECTION V. REACTIVITY DATA

**STABILITY:** STABLE UNDER NORMAL CONDITIONS

**CONDITIONS TO AVOID:** HIGH TEMPERATURES

**INCOMPATIBILITY (MATERIALS TO AVOID):** OXIDIZING AGENTS. ORGANIC ACIDS (EX. CITRIC OR ACETIC ACID). MINERAL ACIDS. PRODUCT SLOWLY CORRODES COPPER, ALUMINUM, ZINC, AND GALVANIZED SURFACES. INCOMPATIBLE WITH BASES. REACTION WITH PEROXIDES MAY RESULT IN VIOLENT DECOMPOSITION OF PEROXIDE POSSIBLY CREATING AN EXPLOSION. SODIUM HYPOCHLORITE.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CARBON MONOXIDE AND/OR CARBON DIOXIDE, NITROGEN OXIDES AND COMPOUNDS. AMMONIA. NITRIC ACID.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR.

## SECTION VI. HEALTH HAZARDOUS DATA

**EMERGENCY OVERVIEW:** SEVERE EYE IRRITANT. MODERATE SKIN AND RESPIRATORY IRRITANT. HARMFUL IF SWALLOWED. RISK OF SERIOUS DAMAGE TO EYES.

**PRIMARY ROUTES OF ENTRY:** DERMAL, INHALATION, EYES

**PRIMARY RATES OF EXPOSURE:**

**ORAL:** LD50 (RAT) >500mg/kg

**DERMAL:** LD50 (RABBIT) >2000mg/kg

**IRRITATION:**

**SKIN:** MODERATE SKIN IRRITATION

**EYE:** SEVERE EYE IRRITATION

**EFFECTS OF OVEREXPOSURE:** MAY BE HARMFUL IF INGESTED, INHALED OR ABSORBED THROUGH THE SKIN. MAY CAUSE NOSE, THROAT, AND LUNG IRRITATION. REPEATED OR PROLONGED EXPOSURE TO LOW CONCENTRATIONS OF VAPORS MAY CAUSE SORE THROAT.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** ASTHMA, EYE CONDITIONS, SKIN DISORDERS, ALLERGIES.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES** - FOR EYE CONTACT, IMMEDIATELY FLUSH EYES FOR AT LEAST FIFTEEN MINUTES WITH RUNNING WATER. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE EYE SURFACE AND LIDS WITH WATER. IF PHYSICIAN IS NOT AVAILABLE, FLUSH FOR AN ADDITIONAL FIFTEEN MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

**SKIN** - FOR SKIN CONTACT, IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES UNDER A SAFETY SHOWER. WASH AFFECTED AREAS THOROUGHLY WITH PLENTY OF WATER AND SOAP FOR AT LEAST FIFTEEN MINUTES. GET IMMEDIATE MEDICAL ATTENTION. DISCARD OR DECONTAMINATE CLOTHING BEFORE RE-USE, AND DESTROY CONTAMINATED SHOES.

**INGESTION** - IF SWALLOWED, IMMEDIATELY GIVE AT LEAST 3-4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. GET IMMEDIATE MEDICAL ATTENTION.

**INHALATION** - IF INHALED, REMOVE FROM AREA TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION IF BREATHING IS DIFFICULT, TRANSPORT TO MEDICAL CARE AND, IF AVAILABLE, GIVE SUPPLEMENTAL OXYGEN.

**OTHER** - PROMPTLY REMOVE WET CONTAMINATED NON-IMPERVIOUS CLOTHING. WASH BEFORE RE-USE.

## SECTION VII. SPILL OR LEAK PROCEDURES

**SPILL PROCEDURES:** AVOID ALL PERSONAL CONTACT. CONSTRUCT A DIKE TO PREVENT SPREADING. TAKE UP WITH ABSORBENT MATERIAL. SHOVEL INTO CLOSABLE CONTAINER (NOTE: DO NOT STORE IN REACTIVE METAL CONTAINERS).

**WASTE DISPOSAL METHODS:** DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

## SECTION VIII. SPECIAL PROTECTION INFORMATION

**VENTILATION:** GOOD GENERAL MECHANICAL VENTILATION AND LOCAL EXHAUST IS REQUIRED.

**PROTECTIVE GLOVES:** WEAR IMPERVIOUS GLOVES.

**EYE PROTECTION:** WEAR SPLASH-PROOF CHEMICAL RESISTANT GOGGLES.

**RESPIRATORY PROTECTION:** USE OSHA, NIOSH APPROVED AMINE ORGANIC CARTRIDGE VAPOR RESPIRATOR WHEN VENTILATION IS INADEQUATE.

**SKIN AND BODY PROTECTION:** LONG SLEEVE SHIRT AND PANTS WITHOUT CUFFS.

**OTHER PROTECTIVE EQUIPMENT:** WEAR PROTECTIVE EQUIPMENT TO PREVENT EXPOSURE AND PERSONAL CONTACT.

## SECTION IX. SPECIAL PRECAUTIONS

**HMS CODE:** HEALTH: 2\* FIRE: 1 REACTIVITY: 0

**HANDLING, SHIPPING, AND STORING PRECAUTIONS:** AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR, MIST, OR SPRAY. USE ONLY WITH GOOD VENTILATION. INDIVIDUALS SHOULD WASH THOROUGHLY AFTER HANDLING. STORE IN DRY, COOL, WELL VENTILATED AREA IN CLOSED CONTAINERS. DO NOT STORE NEAR ACIDS OR IN REACTIVE METAL CONTAINERS. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE. FOR INDUSTRIAL USE ONLY.

**FIRST AID:** IN CASE OF CONTACT WITH:

**EYES-** IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST FIFTEEN MINUTES. CALL A PHYSICIAN.

**SKIN-** FLUSH SKIN WITH PLENTY OF WATER.

**CLOTHING-** WASH CLOTHING BEFORE REUSE.

## SECTION X. REGULATORY INFORMATION

**DOT CLASS:** NOT REGULATED

**DOT NUMBER:** N/A

**RCRA STATUS:** NOT A HAZARDOUS WASTE UNDER RCRA (40 CFR 261)

**CERCLA STATUS:** NOT LISTED

**SARA/TITLE III-TOXIC CHEMICAL LIST:** THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL FOR ROUTINE ANNUAL "TOXIC CHEMICAL RELEASE REPORTING" UNDER SECTION 313 (40 CFR 372)

**OSHA STATUS:** THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH FEDERAL OSHA HAZZARD COMMUNICATION STANDARD 29 CFR 1910.1200. THIS PRODUCT IS CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.

**TSCA INVENTORY STATUS:** CHEMICAL COMPONENTS LISTED ON TSCA INVENTORY.

**ISSUE DATE:** 07/2006

FOR FURTHER INFORMATION, PLEASE CONTACT PRODUCT SAFETY DIRECTOR.

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. ALL CHEMICALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST. FINAL DETERMINATION OF SUITABILITY OF THE CHEMICAL IS THE SOLE RESPONSIBILITY OF THE USER. USERS OF ANY CHEMICAL SHOULD SATISFY THEMSELVES THAT THE CONDITIONS AND METHODS OF USE ASSURE THAT THE CHEMICAL IS USED SAFELY. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN, OR TO THE CHEMICAL TO WHICH THE USER REFERS.