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SAFETY DATA SHEET

SECTION I - IDENTIFICATION

PRODUCT NAME: **K-PRENE®**
PRODUCT CLASS: Cast Polyurethane
MANUFACTURER: ACROTECH, INC.
980 W. Lakewood Ave., POB 466
Lake City, MN 55041 USA

EMERGENCY PHONE NBR.: 651-345-3362
PHONE NBR. FOR INFO: 651-345-3362
DATE PREPARED: 5/1/2015
SUPERCEDES: 12/29/99; 11/1/10

SECTION II - HAZARDOUS COMPONENTS

INGREDIENT: K-PRENE URETHANE IS A POLYETHER BASED POLYURETHANE.

Polyurethane elastomers are fully reacted polymers forming articles which are not considered hazardous under OSHA's criteria 29 CFR 1910.1200. However, hazardous dusts, vapors, gases, or fumes may be released by mechanical or thermal processing, or by thermal decomposition. These fumes could contain traces of curatives, TDI and other isocyanates. Fumes from hot work can be irritating and lead to coughing. Skin contact may result in skin sensitization or asthma-like lung sensitization. Dusts may aggravate existing lung disorders when protection is not used.



SECTION III - COMPOSITION, INFORMATION ON INGREDIENTS

CHEMICAL NAME: Polyurethane resin and hardener mix (which is a trade secret) and varies with durometer and color requirements.

SECTION IV - FIRST AID MEASURES

INHALATION OF DUST PARTICLES OR FUMES: Seek fresh air immediately
SKIN AND EYE CONTACT: Flush or rinse immediately with water

May cause shortness of breath if inhaled and skin or eye irritation.

EMERGENCY & FIRST AID PROCEDURES: SPLASH (EYES): Flush eyes immediately with large amount of water for at least 15 minutes. Cool hot melt burns with ice or cold water immediately. Do not forcibly remove melted material stuck to skin. Call a physician.

SECTION V - FIRE & EXPLOSION HAZARD DATA

FLAMMABLE LIMITS: N/D
EXTINGUISHING MEDIA: Foam, Water Spray, Dry Chemical, Carbon Dioxide
FLASH POINT: N/A
UNUSUAL FIRE & EXPLOSION HAZARDS: Dusts from processing operations may be combustible. Use of K-Prene above 250° F., even if only intermittent, is not recommended. Use above 200° F. should be evaluated individually beforehand. May produce vapors when heated. Chemical properties of K-Prene break down.
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate non-emergency personnel to a safe area. Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn. Burning products intense heat, dense smoke, and toxic gases, such as carbon monoxide, oxides of nitrogen and traces of hydrogen cyanide. Avoid breathing smoke, fumes and decomposition products. Use water spray to quench smoldering elastomers. Product may melt after ignition to form flammable liquids.

SECTION VI - ACCIDENTAL RELEASE MEASURES

WASTE DISPOSAL METHOD: Landfill or incinerate in accordance with Federal, State and Local regulations. This product is not defined as hazardous by current provisions of the Federal Resource Conservation Act (RCRA), 40 CFR, Part 26).

SECTION VII - HANDLING & STORAGE

RESPIRATOR PROTECTION: In accordance with OSHA regulations, NIOSH approved respirator. For grinding, wear a dust respirator. If generating gas, vapor, and fumes, wear an air-purifying respirator with organic cartridge or supplied-air respirator if ventilation is inadequate.

VENTILATION: All application areas should be ventilated in accordance with OSHA regulations. Provide efficient exhaust at all operations where heat is used or heat buildup during product use could result in possible polymer breakdown.

PROTECTIVE GLOVES: None required. Protective gloves should be used if handling heated product.
EYE PROTECTION: In accordance with OSHA regulations.

SECTION VIII - EXPOSURE CONTROLS & PERSONAL PROTECTION

RESPIRATOR PROTECTION: In accordance with OSHA regulations, NIOSH approved respirator. For grinding, wear a dust respirator. If generating gas, vapor, and fumes, wear an air-purifying respirator with organic cartridge or supplied-air respirator if ventilation is inadequate.

VENTILATION: All application areas should be ventilated in accordance with OSHA regulations. Provide efficient exhaust at all operations where heat is used or heat buildup during product use could result in possible polymer breakdown.

PROTECTIVE GLOVES: None required. Protective gloves should be used if handling heated product.

EYE PROTECTION: In accordance with OSHA regulations.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: N/A

EVAPORATION RATE: N/A (Butyl Acetate=1)

SOLUBLE IN WATER: Insoluble

SPECIFIC GRAVITY: (H₂O=1)

VAPOR DENSITY: N/A (Air=1)

VAPOR PRESSURE: N/A (mm Hg.)

MELTING POINT: Melts 380-450 deg.F., may degrade above 300 deg. F.

APPEARANCE & ODOR: Solid, no odor, various colors or natural

ALL OTHERS CHARACTERISTICS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition through burning produces fumes consisting of organic particulates, gaseous hydrocarbons, carbon dioxide, carbon monoxide and may contain traces of toluene diisocyanate (TDI) or diphenylmethane diisocyanate (MDI), hydrogen cyanide, acrolein and oxides of nitrogen.

SECTION X - STABILITY AND REACTIVITY

STABILITY: Stable

MATERIALS TO AVOID: Strong acids or bases

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SECTION XI - TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE:

ACUTE: (Short Term) None known from solid article. Fumes from hot-wire cutting can be irritating, and lead to coughing. These fumes could contain traces of isocyanates, such as MDI or TDI depending upon which isocyanate is used in the elastomer formulation. Exposure to isocyanates may produce an asthma-like reaction, with shortness of breath, wheezing or cough, which may occur after re-exposure to very low levels.

CHRONIC: (Long Term) Animal studies indicate that chronic inhalation or overexposure of dusts may cause inflammation of the lungs, fibrosis, and airway destruction.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Dust from grinding operations may aggravate existing lung disorders when proper protection is not used.

PRIMARY ROUTES OF ENTRY: Inhalation

SECTION XII - ECOLOGICAL INFORMATION

Under normal conditions, not application.

SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Landfill or incinerate in accordance with Federal, State and Local regulations. This product is not defined as hazardous by current provisions of the Federal Resource Conservation Act (RCRA), 40 CFR, Part 26). Refer to OSHA 79CFR Part 1910.106 for specific storage requirements.

SECTION XIV - TRANSPORT INFORMATION

Not regulated as a hazardous material.

SECTION XV - REGULATORY INFORMATION

Not applicable

SECTION XVI - OTHER INFORMATION

None

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ND = Not Determined

NA = Not Applicable