

SAFETY DATA SHEET

Product Name: Polyurethane HD IsoFree™ Aliphatic (Part A)

Product Codes (2 PART KIT): PU-0401, PU-0402, PU-0403, PU-2401, PU-2402, PU-2403, PU-1401, PU-1402, PU-1403, PU-0404, PU-0405, PU-0406, PU-0414, PU-0415, PU-0416, PU-1404, PU-1405, PU-1406, PU-0407, PU-0408, PU-0409, PU-0410, PU-0411, PU-0412

SECTION 1: Identification

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REVISION DATE: 10/01/19

Relevant Identified Uses: Raw material for coatings, adhesives, sealants, or elastomers in commercial or industrial applications.

SECTION 2: Hazards Identification

EMERGENCY OVERVIEW:

OSHA Hazards No known OSHA hazards. Not a dangerous substance according to GHS.

Hazards not otherwise classified (HNOC) or not covered by GHS None

HMIS CLASSIFICATION:

Health Hazard	0
Flammability	0
Physical Hazards	0

NFPA RATING:

Health Hazard	0
Fire	0
Reactivity Hazard	0

APPEARANCE: Milky white

EYE CONTACT: May cause eye irritation; Prolonged exposure may cause eye damage

SKIN CONTACT: May be harmful if absorbed through skin; May cause skin irritation

INHALATION: May be harmful if inhaled; May cause respiratory tract irritation

INGESTION: May be harmful if ingested

ACUTE HEALTH EFFECTS: May be irritating to skin, eyes and digestive tract

CHRONIC HEALTH EFFECTS: Repeated and prolonged exposures have not been studied

AGGRAVATION of PRE-EXISTING CONDITIONS: Persons with preexisting conditions may be more susceptible

SECTION 3: Composition and Information on Ingredients

CHEMICAL FAMILY: Aqueous Poly-Acrylic Aliphatic Urethane

HAZARDOUS COMPONENTS

There are no hazardous components above the relevant concentration limits according to OSHA HazCom 2012.

OTHER INGREDIENTS	CAS #	% BY MASS	HAZARDOUS
Wetting Agent	Proprietary	1-4	No

This product contains an amine neutralizing agent which is bound in the matrix of this product as a salt. This amine salt is considered unreactive at room temperature. Generation of amine vapors is expected when this product is processed (heated) during the drying/hardening of the coating.

SECTION 4: First Aid Measures

PRIMARY ROUTES OF EXPOSURE:	Ingestion, dermal contact
EYE EXPOSURE:	Remove contacts if present; Immediately flush the eyes with water for at least 10-15 minutes; Seek medical attention if irritation persists
SKIN EXPOSURE:	Wash the affected area with soap and water; Remove contaminated clothes if necessary; Seek medical assistance if irritation persists
INHALATION:	If breathed in, move person to fresh air; If not breathing, give artificial respiration
INGESTION:	If the person is conscious, rinse their mouth out with water; Never give anything by mouth to an unconscious person. If ingested, do not induce vomiting unless directed to do so by medical personnel; Seek medical attention
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:	Not expected to cause adverse acute health effects; The most important known symptoms and effects are described in section 2 and/or in section 11

SECTION 5: Fire Fighting Measures

EXTINGUISHING MEDIUM:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
SPECIAL FIRE FIGHTING PROCEDURES:	Wear self contained breathing apparatus for fire fighting if necessary

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:

By fire and thermal decomposition: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke, undetermined compounds

UNUSUAL FIRE OR EXPLOSION HAZARDS:

None

SECTION 6: Accidental Release Measures

GENERAL PROTECTION:

See Section 8 for personal protection. Avoid breathing vapors, mist or gas.

ENVIRONMENTAL PRECAUTIONS:

No special environmental precautions required.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:

Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Dike or dam spilled material and control further spillage, if possible. Prevent from entering open drains and waterways. Wash spill area with soap and water. Ventilate area to remove vapors or dust.

SECTION 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep closed when not in use. Avoid breathing dust, vapor, or mist. Avoid contact with eyes. Avoid contact with skin or clothing.

RECOMMENDED STORAGE:

Store up to 6 months after receipt of material by customer. Store in closed container at 7 – 25 °C, separate from food products. **DO NOT FREEZE.** Storage class (TRGS 510): Non-Combustible Liquids

SUBSTANCES TO AVOID:

Water reactive substances.

SECTION 8: Exposure Controls and Personal Protection

The recommendations in this section should not be a substitute for a personal protective equipment (PPE) assessment performed by the employer as required by 29 CFR 1910 Subpart I.

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

EXPOSURE CONTROLS:

APPROPRIATE ENGINEERING CONTROLS: General industrial hygiene practice.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SKIN PROTECTION: Wear protective clothing and gloves.

VENTILATION: General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines. Thermal processing operations should be ventilated to control gases and fumes given off during processing. Curing ovens must be ventilated to prevent the buildup of explosive atmospheres and to prevent off gases from entering the workplace.

RESPIRATOR: Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU) during high temperature processing or when thermal decomposition is suspected.

ADDITIONAL PROTECTION: Employees should wash their hands and face before eating or drinking. Educate and train employees in the safe use and handling of this product. Store separate from food products.

SECTION 9: Physical and Chemical Properties

FORM: Liquid

APPEARANCE/COLOR: Amber

UPPER/LOWER FLAMMABILITY LIMIT:	No data available
ODOR:	Mild, characteristic
VAPOR PRESSURE:	No data available
ODOR THRESHOLD:	No data available
VAPOR DENSITY:	No data available
pH:	8.5
RELATIVE DENSITY:	ca. 1.06 g/cm at 20 °C (68 °F) (DIN 51757)
MELTING/FREEZING POINT (°C):	0 °C (32 °F) similar to water
SOLUBILITY:	Miscible in water
BOILING POINT (°C):	100 °C (212 °F) similar to water
FLASH POINT (°C):	Not applicable (water based product); however, solid material will support combustion if water has been evaporated
EVAPORATION RATE:	No data available
FLAMMABILITY:	No data available
PARTITION COEFFICIENT:	No data available
AUTO-IGNITION TEMPERATURE (°C):	ca. 455 °C (851 °F) (DIN 51794)
DECOMPOSITION TEMPERATURE (°C):	No data available
MOLECULAR WEIGHT:	No data available
DYNAMIC VISCOSITY:	1,000 - 3,500 mPa.s@ 23 °C (73.4 °F) (DIN 53019)
KINEMATIC VISCOSITY:	No data available
SPECIFIC GRAVITY:	Approximately 1.19 @25 °C (77 °F)
BULK DENSITY:	Approximately 1,066 kg/m ³

SECTION 10: Stability and Reactivity

REACTIVITY:	No data available
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CHEMICAL STABILITY:	Stable under recommended storage conditions. DO NOT FREEZE.
OTHER:	
POSSIBILITY OF HAZARDOUS REACTIONS:	Hazardous polymerization does not occur.
CONDITIONS TO AVOID:	No data available
MATERIALS TO AVOID:	Water reactive materials.
HAZARDOUS DECOMPOSITION PRODUCTS:	Hazardous decomposition products may be formed under fire and thermal decomposition conditions – carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke, other undetermined compounds. See section 5 the event of fire.

SECTION 11: Toxicological Information

ACUTE TOXICITY: Polyester Diol Dispersion

Oral LD50: > 5,000 mg/kg (Calculation method)

Inhalation LD50: No data available

Dermal LD50: No data available

Other information on acute toxicity: No data available

SKIN CORROSION/IRRITATION: No data available

SERIOUS EYE DAMAGE/IRRITATION: No data available

RESPIRATORY OR SKIN SENSITIZATION: No data available

GERM CELL MUTAGENICITY: No data available

CARCINOGENICITY

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

REPRODUCTIVE TOXICITY: No data available

TERATOGENICITY: No data available

SPECIFIC TARGET ORGAN TOXICITY: No data available

ASPIRATION HAZARD: No data available

POTENTIAL HEALTH EFFECTS

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

SIGNS AND SYMPTOMS OF EXPOSURE: May cause argyria (a slate-grey or bluish discoloration of the skin and deep tissues to the deposit of insoluble albuminate of silver. Exposure to silver compounds can cause contact dermatitis. The toxicological properties have not been thoroughly investigated. The data supplied are for closely related compounds. No data available.

SYNERGISTIC EFFECTS: No data available

ADDITIONAL INFORMATION: RTECS not available

SECTION 12: Ecological Information

AQUATIC/TERRESTRIAL ORGANISM TOXICITY: Harmful to aquatic life

ASPIRATION HAZARD	No data available
PERSISTENCE AND DEGRADABILITY:	No data available
BIOACCUMULATIVE POTENTIAL:	No data available
MOBILITY IN SOIL:	No data available
PBT AND vPvB ASSESSMENT:	No data available
OTHER ADVERSE EFFECTS:	No data available

SECTION 13: Disposal Considerations

DISPOSAL: Dispose of according to local, state and federal regulations. (Refer to Section 8)

SECTION 14: Transportation Information

DOT (US):	Not dangerous goods
IMDG:	Not dangerous goods
IATA:	Not dangerous goods
SHIPPING NAME (CFR):	Non-hazardous
SHIPPING NAME (IATA):	Non-hazardous

SECTION 15: Regulatory Information

OSHA HAZARDS:	No known OSHA hazards.
DSL STATUS:	All components of this product are on the Canadian DSL list.
TSCA 12(b) export:	No substances are subject to TSCA 12(b) export notification requirements.
US. EPA CERCLA HAZARDOUS SUBSTANCES (40 CFR 302) COMPONENTS:	None
SARA 302 COMPONENTS:	No chemicals in this material are subject the reporting requirements of SARA Section 302.

SARA 313 COMPONENTS:

No chemicals in this material are subject to the reporting requirements of SARA Section 313.

SARA 311/312 HAZARDS:

No SARA Hazards.

US EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

CA PROP 65 COMPONENTS: This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.

CFATS (Chemical Facility Anti-Terrorism Standards) Chemicals

To the best of our knowledge, this product does not contain Appendix A Chemicals of Interest (COI), at or above the Screening Threshold Quantity (STQ), as defined by the Department of Homeland Security Chemical Facility Anti-Terrorism Standard (CFATS, 6 CFR Pan 27).

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Rainguard Brands, Inc and RainguardPro make no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.