

SAFETY DATA SHEET

Product Name: RainguardPro® Fluoropoly HD (Part B)

Product Codes:

SECTION 1: Identification

MANUFACTURER: Rainguard Brands, LLC
RainguardPro
2736 West McDowell Road
Phoenix, AZ 85009
United States of America

RAINGUARD PHONE: (949) 515-8800

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SECTION 2: Hazards Identification

2.1 Classification of Mixture

GHS Classification HCS 2012 (29 CFR 1910)

Hazard Class	Category	Hazard Statements	Precautionary Statements
Acute Toxicity - Oral	Category 5	H303	P261, P264, P271, P285, P301 + P312, P301 + P330 + P331
Skin Corrosion / Irritation	Category 1B	H314	P264, P280, P303 + P361 + P353, P363, P304 + P340, P312, P321
Eye Damage / Irritation	Category 1	H318	P280, P305 + P351 + P338, P310
Specific Target Organ Toxicity - Single Exposure	Category 3	H335	P260, P312
Corrosive Metals	Category 1	H290	P234, P390, P391, P406, P501

2.2 Label Elements

HCS 2012 (29 CFR 1910)

PICTOGRAMS



Signal Word: DANGER

Hazard Statements:

Hazard #	Hazard Statement
H290	May be corrosive to metals
H303	May be harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

PRECAUTIONARY STATEMENTS

Precautionary #	Precautionary Statement
P202	Do not handle until all safety precautions have been read and understood
P273	Avoid release to the environment
P234	Keep only in original packaging
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash skin thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P285	In case of inadequate ventilation wear respiratory protection
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell

P301+P330+P331	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water (or shower)
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor
P312	Call a POISON CENTER/doctor if you feel unwell
P321	Specific treatment (see First Aid Measures on Safety Data Sheet)
P363	Wash contaminated clothing before reuse
P390	Absorb spillage to prevent material damage
P391	Collect spillage
P406	Store in a corrosion resistant container with a resistant inner liner
P501	Dispose of contents/container according to federal, state, & local regulations

2.3 Hazards not otherwise classified: None known

SECTION 3: Composition

HAZARDOUS COMPONENTS

CHEMICAL NAME	CAS #	%	COMMENTS
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SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

GENERAL ADVICE:	Consult a physician. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing.
EYE EXPOSURE:	Flush eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Seek immediate medical attention.
SKIN EXPOSURE:	Immediately remove contaminated clothing and shoes. Wash exposed areas with soap and water. Wash contaminated clothing before reuse. Consult a physician.
INHALATION:	Move the victim to fresh air. If the victim has difficulty breathing, administer oxygen. If breathing has stopped, initiate CPR. Seek immediate medical attention.
INGESTION:	DO NOT induce vomiting. Rinse mouth with water. Never give an unconscious person anything to drink. If conscious, treat for shock. Seek immediate medical assistance or the nearest poison control center. If unconscious and vomiting, turn the victim on their side to avoid choking.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed:

No data available.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing Media

Dry chemical, carbon dioxide, alcohol-resistant foam. Use water spray to keep fire-exposed containers cool. Unsuitable Extinguishing Media: High volume water jet.

5.2 Special Hazards Arising from the Substance or Mixture:

Carbon dioxide, carbon monoxide, oxides of nitrogen, hydrogen cyanide, isocyanate, and isocyanic acid. dense black smoke, and other compounds unidentified.

5.3 Advice for Firefighters:

Firefighters should wear NFPA approved self-contained breathing apparatus and full protective clothing. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. Toxic and irritating gases/fumes, including heated diisocyanate that is considered extremely dangerous, may be given off during burning or thermal decomposition.

5.4 Further Information:

No data available

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures:

Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Stop the leak if you can do it without risk and avoid run off to waterways or storm drains.

6.2 Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform authorities if the product has caused environmental pollution (sewers, drains, waterways or soil).

6.3 Methods and Materials for Containment and Cleaning up:

Cleanup personnel must use appropriate personal protective equipment. Evacuate and keep unnecessary personnel out of the spill area. Remove all sources of ignition, including flames, heat, and sparks. Stop leak if without risk. Move containers from the spill area. Dike or dam spilled material with noncombustible, absorbent material (e.g., sand, earth, vermiculite or diatomaceous earth) and control further spillage, where possible. Make certain the absorbent material soaks up all liquids. Collect and place spilled material in container (e.g., 55-gal salvage drum) for proper disposal according to appropriate local, state and federal regulations. Repeat application of absorbent material until all liquid has been removed from the surface. Do not fill the salvage container more than two-thirds full to allow for any expansion, and do not tighten the lid on the container. Store salvage container (make certain the lid is loose to allow release of carbon dioxide) in a well ventilated, isolated, and cool area for at least 72 hours. Properly dispose of the waste material and any contaminated equipment in accordance with existing federal, state and local regulations. Decontaminate the spill surface area with a neutralization solution. A neutralization solution can be prepared with a combination of two solutions mixed 1:1 by volume: (Solution 1): Mineral Spirits (80%), VVM&P Naptha (15%) and Household Detergent (5%); (Solution 2): Monoethanolamine (50%) and water (50%). Other neutralization solutions include: ZEP® Commercial Heavy-Duty Floor Stripper, EASY OFF® Grill and Oven Cleaner, a solution of Simple Green® Pro HD Heavy-Duty Cleaner (50%) and Household Ammonia (50%), and a solution of Fantastic® Heavy Duty All Purpose Cleaner (90%) and Household Ammonia (10%). Check for residual contamination using Swype® test kits from Colorimetric Laboratories, Inc. (Telephone 847-803-3737) and follow directions provided by the test kits. Repeat decontamination as necessary. Do not allow spilled material or wash water to enter sewers, surface waters or groundwater systems.

6.4 Reference to Other Sections:

For disposal see section 13.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling:

Do not breathe vapors or spray mist. Avoid contact with eyes or skin. Avoid contact with clothing. Use only with adequate ventilation and personal protection. Remove contaminated personal protective equipment (PPE), then wash hands and face thoroughly after handling and before eating and drinking. Keep container closed when not in use. Empty containers retain product residue and can be hazardous. Do not get in eyes, on skin or on clothing. Do not ingest. Avoid release to the environment. Either single inhalation exposure to a relatively high concentration or repeated inhalation exposures to a relatively lower contamination can produce asthmatic sensitization. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination with moisture is suspected

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Storage period is 6 months after delivery by RainguardPro. Maximum storage temperature is 50°C (122°F). Keep away from food products during use and storage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled, unapproved or reactive containers. Use appropriate containment to avoid environmental contamination. Personnel education and training in the safe use and handling of this product are required under OSHA Hazard Communication Standard 29 CFR 1910.1200.

7.3 Regulatory Requirements:

No data found.

SECTION 8: Exposure Controls and Personal Protection

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary depending upon customer applications, specific safe handling procedures should be developed by a person knowledgeable of the intended use, working conditions, and equipment.

ENGINEERING CONTROLS:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

VENTILATION CONTROLS:

Provide adequate ventilation to control airborne concentration below the exposure guidelines/limits.

ADMINISTRATIVE CONTROLS:	Educate and train employees in safe use of this product. Follow all label warnings and data sheet instructions.
PERSONAL PROTECTION:	As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard assessment of all workplaces to determine the need for proper protective equipment for each employee.
EYE PROTECTION:	Close fitting safety goggles or face protection shield.
SKIN AND BODY PROTECTION:	Wear protective gloves and protective clothing.
RESPIRATORY PROTECTION:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

APPEARANCE FORM:	Liquid, pale yellow to yellow
ODOR:	Strong Scent
pH:	1.2
MELTING POINT / FREEZING POINT:	No data available
INITIAL BOILING POINT AND BOILING RANGE:	> 100°C (>210°F) - lit.
FLASH POINT:	No data available
EVAPORATION RATE (ETHER = 1):	>1.0
FLAMMABILITY (SOLID, GAS):	Not applicable
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	No data available
VAPOR PRESSURE:	As water
RELATIVE DENSITY:	1.15 g/cm ³ at 25°C (77°F)
WATER SOLUBILITY:	Fully Miscible
AUTO-IGNITION TEMPERATURE:	Product is not self igniting
DECOMPOSITION TEMPERATURE:	No data available
VISCOSITY:	Water thin

EXPLOSIVE PROPERTIES:	Product does not present explosion hazard
OXIDIZING PROPERTIES:	No data available

SECTION 10: Stability and Reactivity

10.1 REACTIVITY	No data available
10.2 CHEMICAL STABILITY	Stable under recommended storage conditions.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS:	No data available
10.4 CONDITIONS TO AVOID:	High heat, strong alkali
10.5 INCOMPATIBLE MATERIALS:	Strong alkali and oxidizing compounds
10.6 HAZARDOUS DECOMPOSITION PRODUCTS:	No data available
10.7 OTHER DECOMPOSITION PRODUCTS:	No data available
10.8 OTHER INFORMATION:	In the event of a fire see Section 5

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Product Information:

INHALATION:	No data available
INGESTION:	Harmful if swallowed
EYES:	No data available
SKIN:	No data available
GERM CELL MUTAGENICITY:	No data available
CARCINOGENICITY:	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.
REPRODUCTIVE TOXICITY:	No data available

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE: No data available

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: No data available

ASPIRATION HAZARD: No data available

ADDITIONAL INFORMATION: No data available

SECTION 12: Ecological Information

Hexamethylene-1,6-diisocyanate Homopolymer (CAS 28182-81-2)

AQUATIC/TERRESTRIAL ORGANISM TOXICITY: Acute and Prolonged Toxicity to Fish: (Zebra Fish, 96h) LC50 100 mg/l

Acute Toxicity to Aquatic Invertebrates: (water flea, 48 h) EC50 100 mg/l

Hexamethylene-1,6-diisocyanate (CAS 822-06-0)

ASPIRATION HAZARD: No data available

PERSISTENCE AND DEGRADABILITY: Not readily degradable

BIOACCUMULATIVE POTENTIAL: Accumulation is not expected

MOBILITY IN SOIL: No data available

PBT AND vPvB ASSESSMENT: No data available

OTHER ADVERSE EFFECTS: An accumulation in aquatic organisms is not expected.

OTHER INFORMATION: LC0: ≥82.8 mg/l (Zebra Fish, 48 h)

SECTION 13: Disposal Considerations

DISPOSAL: Dispose of according to local, state and federal regulations. (Refer to Section 8). The generation of waste should be avoided or minimized wherever possible. Empty containers should be taken to an approved waste handling site for recycling or disposal. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

EMPTY CONTAINER PRECAUTIONS: Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental laws and regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

CONTAMINATED PACKAGING: Dispose of as unused product.

SECTION 14: Transportation Information

DOT (UN #):	1760
UN number:	Not regulated
Proper shipping name:	Not regulated
Transport Hazard Class:	Not regulated
Packing Group:	Not regulated
Environmental Hazards:	Not regulated
IMO/IMDG:	
UN number:	Not regulated
Proper shipping name:	Not regulated
Transport Hazard Class:	Not regulated
Packing Group:	Not regulated
Environmental Hazards:	Not regulated
IATA:	
UN number:	Not regulated
Proper shipping name:	Not regulated
Transport Hazard Class:	Not regulated
Packing Group:	Not regulated
Environmental Hazards:	Not regulated

Special Precautions for User: When in individual containers containing less than the Product RQ, this product ships as non-regulated

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory Information

This listing is to highlight federal level regulations of the product. Individual states, and other nations may have further regulations not listed below.

CLASSIFICATION OF MIXTURE:

US FEDERAL REGULATIONS:

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name

CAS NO

HYDROCHLORIC ACID

7647-01-0

SARA 311/312 HAZARD CATEGORIES:

ACUTE HEALTH HAZARD

Yes

CHRONIC HEALTH HAZARD

No

FIRE HAZARD

No

SUDDEN RELEASE OF PRESSURE HAZARD

No

REACTIVE HAZARD:

No

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

US STATE RIGHT-TO-KNOW REGULATIONS:

CHEMICAL NAME:

PA

MA

NJ

HYDROCHLORIC ACID

X

X

X

SECTION 16: Other Information

HMIS RATING:

KEY:

HEALTH	2	0 = Minimum
FLAMMABILITY	0	1 = Slight
REACTIVITY	1	2 = Moderate
PPE	C*	3 = Serious
		4 = Severe

***C: Chemical resistant gloves, goggles, and aprons are recommended.**

LEGEND:	
ACGIG - American Conference of Governmental Hygienists	IARC - International Agency for Research on Cancer
OSHA - Occupational Safety and Health Administration	TSCA - Toxic Substances Control Act
DOT - Department of Transportation	MSHA - Mine Safety Health Administration
PEL - Permissible Exposure Limit	TWA - Time Weighted Average
DSL - Domestic Substance List	NDSL - Non-Domestic Substance List
RCRA - Resource Conservation and Recovery Act	V - Volume
EPA - Environmental Protection Agency	NIOSH - National Institute for Occupational Safety Health
STEL - Short Term Exposure Limit	VOC - Volatile Organic Compound
HMIS - Hazardous Materials Information System	NTP - National Toxicology Program
TLV - Threshold Limit Value	WHMIS - Workplace Hazardous Materials Information System

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