



SAFETY DATA SHEET

POLYGUARD 85 CLEAR

Clear Polyaspartic Top Coating

Revision Date: 02/12/2024

Section 1: COMPANY AND PRODUCT IDENTIFICATION**Manufacturer Name**

SurfaceLogix (a Reliance Supply Company)
1880 N.W. 18th Street, Pompano Beach, FL 33039

Telephone Numbers

Information - 954.971.9111
Transportation and Medical Emergency – CHEMTREC 1-800 262-8200

Product Number

150A-1G

Product Name

PolyGuard 85 CLEAR Part A

Chemical Family Polyaspartic

Solvent System

Section 2: HAZARD IDENTIFICATION

GHS Classification; Signal Word: Warning



Hazard pictograms

GHS Label Elements

Skin sensitization:	Category 1
Inhalation:	Category 2
Carcinogen:	Category 2
Flammability:	Category 3

Hazard statements: May cause allergic skin reaction; May be harmful if swallowed or enters airways.**Precautionary statements: Prevention:**

Avoid breathing dust, mist, gas, vapors, or spray.

Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

Disposal:

Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**Hazardous Components**

Weight Percent	Components	CAS-No.	Classification
75 - 85 %	Aspartic Ester	136210-30-5	Skin sensitization: Category 1
1 - 5%	Aliphatic Carboxylic Ester	623-91-6	Inhalation: Category 2
1- 2%	Xylenes	1330-20-7	Flammability: Category 3

The specific chemical identity and/or exact percentage of components have been withheld as a trade secret.

Section 4: FIRST AID MEASURES**Most Important Symptom(s)/Effect(s) Acute:** May cause skin irritation with symptoms of reddening, itching, and swelling. May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling. May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.**Eye contact**

In case of contact, flush eyes with plenty of lukewarm water. Remove contact lenses and use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops.

Skin contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes.

Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if irritation develops.

Ingestion

If ingested, give two glasses of water for dilution. Do not induce vomiting unless directed to do so by medical personnel.

Get medical attention immediately.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO₂), Dry chemical, Foam

Special Fire Fighting Procedures

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. A percentage of product floats on water – water jet spreads flames. Hazardous Decomposition Products By Fire and Thermal Decomposition: Carbon oxides, Nitrogen oxides (NO_x), Amines, other aliphatic fragments which have not been determined, Ammonia gas may be liberated at high temperatures.

Section 6: ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

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 water. Ventilate area to remove vapors or dust.

Section 7: HANDLING AND STORAGE

Handling/Storage Precautions Avoid contact with skin or clothing. Avoid contact with eyes.

Use only with adequate ventilation/personal protection. Wash thoroughly after handling.

Keep container closed when not in use. Do not breathe vapors or spray mist.

Store in a dry place away from excessive heat. Material is hygroscopic and may absorb small amounts of atmospheric moisture.

Do not reseal container if contamination is suspected.

Storage temperature:

minimum: 0 °C (32 °F)

maximum: 32 °C (90 °F)

Storage period

Please see expiration date on container. Store best at 25 °C (77 °F)

Handling/Storage Precautions

Handle in accordance with good industrial hygiene and safety practices.

Keep container closed when not in use. ~~Substances~~ to avoid are oxidizing agents, acids and isocyanates. Warning Content is Flammable, never cut, drill, weld or grind on or near this container.

Further Info on Storage Conditions

Protect from freezing. Store in a cool dry place. Store in original or similar containers. Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Section 8: EXPOSURE CONTROLS / 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.

Exposure Limits

XYLENES TWA 435 MG/M³ 100 PPM N/A OSHA Z1

XYLENES STEL 150 PPM N/A ACGIH

XYLENES TWA 100 PPM N/A ACGIH

Any other component 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.

Industrial Hygiene/Ventilation Measures

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.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Permeation resistant gloves, Butyl rubber gloves, Nitrile rubber gloves.

Eye protection

Chemical safety goggles or safety glasses with side-shields.

Skin and body protection

Permeation resistant clothing, Gloves, long sleeved shirts and pants.

Additional Protective Measures

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Thick Liquid

Color:

White-Light Yellow Clear

Odor:

Mild aromatic hydrocarbon

Boiling point/boiling range:	>210 ° C (410 ° F) @ 1,013 hPa
Flash point:	>100 ° C
Lower explosion limit:	Not Established
Upper explosion limit:	Not Established
Density:	8.4-8.7 lb / Gal
Solubility in Water:	Insoluble
Auto-ignition temperature:	ca. 380 °C (ca 716 °F)
Viscosity, dynamic:	600 – 1500 mPa.s @ 25° C

Section 10: STABILITY AND REACTIVITY

Hazardous Reactions

Hazardous polymerization should not occur.

Stability

Stable

Materials to avoid

Oxidizing agents, Acids
Isocyanates

Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with moisture / water.

Hazardous decomposition products

By Fire and Thermal Decomposition: Carbon dioxide (CO₂), carbon monoxide (CO),

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Skin Contact
Eye Contact
Inhalation

Ingestion

Health Effect and Symptoms Acute: May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash., May cause skin irritation with symptom of reddening, itching, and swelling., May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling., May cause respiratory tract irritation with symptoms of coughing, sore throat, runny nose, headache, dizziness.

Chronic: prolonged exposure may cause dermatitis & skin cracking; "organic solvent syndrome" with fatigue, memory loss, tingling & numbness in limbs were seen after long term exposure.

Toxicity Data for: Xylene: Toxicological data is based on a similar product.

Oral Toxicity

LD50: 6,800 mg/kg (Oral rat) Acute Inhalation Toxicity

LC50: 1,970 ppm / 4 h (Inhalation rat) Acute Dermal

ToxicityLD50: 3,400 mg/kg (Skin rabbit)

Toxicity Data for: Aliphatic Carboxylic Ester Acute Oral Toxicity LD50: 1,367 mg/kg (rat, female) (OECD Test Guideline 401)

Aspartic Ester: Acute Oral Toxicity Acute toxicity estimate: > 5,000 mg/kg (Calculation method)

Acute Dermal Toxicity LD50: > 2,000 mg/kg (rat) (Directive 67/548/EEC, Annex V, B.3.)

Studies of a comparable product. Toxicological studies of a comparable product.

Carcinogenicity :

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Genetic Toxicity in Vivo: Micronucleus test: negative (Mouse) Toxicological studies of a comparable product. negative

Section 12: ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

ECOTOXICOLOGICAL INFORMATION

No data available for this formulated product.

Ecological Data for **Aspartic Ester** Biodegradation 13 %, Exposure time: 28 d, i.e. not readily degradable Ecotoxicological reports on a comparable product Exposure time: 28 d, i.e. not inherently degradable Ecotoxicological studies of the product Bioaccumulation value calculated, 1,872 BCF

The substance hydrolyzes rapidly in water. An accumulation in aquatic organisms is not to be expected.

Acute and Prolonged Toxicity to Fish LC50: 66 mg/l (Danio rerio (zebra fish), 96 h) Ecotoxicological reports on a comparable product

Acute Toxicity to Aquatic Invertebrates EC50: 88.6 mg/l (Daphnia magna (Water flea), 48 h) Studies of a comparable product.

Toxicity to Aquatic Plants IC50: 113 mg/l, (scenedesmus subspicatus, 72 h) Ecotoxicological reports on a comparable product

Ecological Data for **Aliphatic Carboxylic Ester** Biodegradation 92 - 95 %, i.e. readily biodegradable

Acute and Prolonged Toxicity to Fish LC50: 38 mg/l (Fathead minnow (Pimephales promelas), 96 h)

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Empty Container Precautions

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

Empty containers retain product residue (dust, liquid, vapor and/or gases) and can be dangerous. Do not heat or cut container with electric or gas torch.

Section 14: TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT): NOT REGULATED

IMDG, Maritime: NOT REGULATED

IATA/ICAO Air: NOT REGULATED

Section 15: REGULATORY INFORMATION

United States Federal Regulations

United States Federal Regulations US. Toxic Substances Control Act: Listed on the Active Portion of the TSCA Inventory.

No substances are subject to TSCA 12(b) export notification requirements.

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components: None

SARA Section 311/312 Hazard Categories: Refer to hazard classification information in Section 2.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA)

SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components: None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA)

SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components: None

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.

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Concentration	Components	CAS-No.
60 - 100%	Aspartic Ester	136210-30-5
1 - 5%	Aliphatic Carboxylic Ester	623-91-6

California Proposition 65 List: None.

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 Part 27). Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

	<u>Components</u>	<u>CAS Number</u>
New Jersey Right to Know Substance Lists:		
<u>Weight percent</u>		
<2.2%	Xylenes	1330-20-7
<u>Weight percent</u>		
<1.1%	Cumene (Trace)	98-82-8

Section 16: OTHER INFORMATION

The method of hazard communication for SurfaceLogix, a Reliance Supply Company, is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by SurfaceLogix, a Reliance Supply Company, as a customer service.

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