

Duro-Shield® Acrylic Skylight Coating

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Duro-Shield® Acrylic Skylight Coating
Version: 1
Identifier 1: Water Based Sealer
Identifier 2: N/A
Product Type: Mixture
Product Use: Roof Coating

Company Information: Duro-Last®, Inc.
 525 W Morley Dr.
 Saginaw, MI 48601
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 Internet Address: www.duro-last.com

24 Hour Emergency Contact: INFOTRAC
 1-800-535-5053 (US & Canada)
 1-352-323-3500 (International)

SECTION 2 HAZARD(S) IDENTIFICATION

Emergency Overview: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Precautionary Statements: **Disposal**
 P501 - Dispose of contents/container in accordance with federal, state and local regulations.

Other Hazards: Harmful to aquatic life with long lasting effects. 45% of the mixture consists of ingredients of unknown toxicity.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

Chemical Name	CAS Number	Concentration (%)
Water	7732-18-5	50.00 – 60.00%
Acrylic Co-Polymer	25035-69-2	30.00 – 40.00%
Ethylene Glycol	107-21-1	0.00 – 10.00%
Ester Alcohol	25265-77-4	0.00 – 10.00%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 FIRST-AID MEASURES

Eye Contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Inhalation: Move exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center if individual's condition declines or if symptoms persist.

Duro-Shield® Acrylic Skylight Coating

Skin Contact:	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If symptoms persist, call a physician.
Ingestion:	Not an expected route of exposure. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a poison center or doctor/physician if you feel unwell.
Most Important Symptoms and Effects, Both Acute and Delayed:	May cause skin and eye irritation.
Protection of First-Aiders:	No action shall be taken involving any personal risk or without suitable training. Use personal protective equipment as required (see Section 8). Show this Safety Data Sheet to the doctor in attendance.
Notes to Physician:	Treat symptomatically.

SECTION 5

FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon Dioxide (CO ₂). Sand. Use foam or water FOG as a last resort.
Unsuitable Extinguishing Media:	Do not use a solid water stream as it may scatter and spread fire.
Hazardous Combustion Products:	Thermal decomposition may release irritating, corrosive and/or toxic gases, vapors and fumes.
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Handling Precautions:	Use personal protection recommended in Section 8.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering sewers, drains, or waterways. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.
Methods for Containment:	Contain spillage with non-combustible absorbent material, e.g. sand, earth, diatomaceous earth, vermiculite.
Methods for Clean-Up:	Extremely slippery when spilled. Collect the absorbed material and transfer to properly labeled containers for disposal according to federal, state, and local regulations (see Section 13).

SECTION 7

HANDLING AND STORAGE

Handling Precautions:	Handle in accordance with good industrial hygiene and safety practice. Do not handle until all safety precautions have been read and understood. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Use only outdoors.
Storage Conditions:	Keep from freezing. Keep containers tightly closed in a cool, dry, well-ventilated place.
Incompatible Materials:	Strong acids. Strong oxidizing agents.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene Glycol	STEL: 50 ppm vapor fraction STEL: 10 mg/m ³ inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³	-

Engineering Measures: None under normal outdoor use conditions.

Hygiene Measures: Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

Personal Protective Equipment: **Respiratory Protection**
No protective equipment is needed under normal use conditions.

Eye/Face Protection
Wear safety glasses with side shields (or goggles).

Skin and Body Protection
Wear protective gloves and protective clothing that is resistant to chemical penetration.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Density:	11.0 to 11.4 lb/gal
Color:	Clear White	VOC Content:	< 50 g/l
Odor:	Peppermint	Flammability:	Non-Flammable
Appearance:	Viscous	Vapor Pressure:	2.33 (kPa)
Flash Point:	N/A	Vapor Density:	5.3
Melting Point:	N/A	Relative Density:	N/A
Freezing Point:	32°F (0°C)	Specific Density:	1.1
Boiling Point:	>212°F (>100°C)	Solubility:	Dispersible
Autoignition Temperature:	626°F (330°C)	Explosive Properties:	Not Explosive

SECTION 10

STABILITY AND REACTIVITY

Reactivity:	No information available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	None under normal processing.
Conditions to Avoid:	No information available
Incompatible Materials:	Strong acids and oxidizing agents.
Hazardous Decomposition Products:	Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiants.

SECTION 11

TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: **Eye Contact**
Avoid contact with eyes. Contact with eyes may cause irritation.

Skin Contact
May cause irritation.

Inhalation

Avoid breathing vapors or mists.

Ingestion

Not an expected route of exposure. If swallowed, do not induce vomiting. Get medical attention immediately.

Toxicity

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Water	> 90 mL/kg (Rat)	-	-
Ethylene Glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat) = 9530 µl/kg (Rabbit)	-
Ester Alcohol	= 3200 mg/kg (Rat)	> 15200 mg/kg (Rat)	> 3.55 mg/L (Rat) 6h

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

Skin corrosion/irritation: Can cause skin irritation.

Serious eye damage/eye irritation: Irritating to eyes.

Irritation: Irritating to eyes and skin.

Corrosivity: Not classified.

Sensitization: May cause sensitization of susceptible persons.

Germ cell mutagenicity: This product does not contain any ingredients that cause germ cell mutagenicity.

Carcinogenicity: None list in ACGIH, IARC, NTP, or OSHA.

Numerical Measures of Toxicity:

The following value is calculated based on chapter 3.1 of the GHS document:
ATEmix (oral) 24,648.65

SECTION 12**ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Ethylene Glycol	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC ₅₀	41000: 96 h Oncorhynchus mykiss mg/L LC ₅₀ 40761: 96 h Oncorhynchus mykiss mg/L LC ₅₀ static 27540: 96 h Lepomis macrochirus mg/L LC ₅₀ static 14 - 18: 96 h Oncorhynchus mykiss mL/L LC ₅₀ static 40000 - 60000: 96 h Pimephales promelas mg/L LC ₅₀ static 16000: 96 h Poecilia reticulata mg/L LC ₅₀ static	46300: 48 h Daphnia magna mg/L EC ₅₀
Ester Alcohol	18.4: 72 h Pseudokirchneriella subcapitata mg/L EC ₅₀	30: 96 h Pimephales promelas mg/L LC ₅₀	95: 96 h Daphnia magna mg/L LC ₅₀

8% of the mixture consists of components of unknown hazards to the aquatic environment.

Persistence/Degradability: No information available.

Bioaccumulation: Ethylene Glycol: -1.93 partition coefficient
Ester Alcohol: 3.47 partition coefficient

Other Adverse Effects: No information available.

SECTION 13**DISPOSAL CONSIDERATIONS**

Disposal Methods: Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any federal, state, and local requirements.

Contaminated Packaging: Do not reuse container.

SECTION 14

TRANSPORT INFORMATION

Other Information: Non-regulated, not classified as dangerous.

SECTION 15

REGULATORY INFORMATION

TSCA Inventory: This product does not contain any chemicals that are listed as active in the United States Toxic Substances Control Act Section 8(b) Inventory.

CERCLA RQ: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Clean Water Act: This product does not contain any substance which is regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

California Prop 65: **WARNING:** This product can expose you to Ethylene Glycol which is known to the State of California to cause [reproductive harm](#). For more information go to www.P65Warnings.ca.gov.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	X
Ethylene Glycol	X	X	X

SECTION 16

OTHER INFORMATION

NFPA:	Health Hazards	Flammability	Instability	Special Hazards
	1	0	0	Not determined
HMIS:	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	Not determined

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