

Duro-Shield[™] Silicone Roof Primer: Universal 2-Part Epoxy Part A

SECTION 1 **PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Duro-Shield[™] Silicone Roof Primer: Universal 2-Part Epoxy Part A
Version: 2
Identifier 1: Part A
Identifier 2: 4015, 5G
Chemical Family: N/A
Product Use: Primers

Company Information: Duro-Last[®], Inc.
 525 W Morley Dr.
 Saginaw, MI, USA 48601
 Phone: (800) 248-0280
 Website: www.duro-last.com

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

SECTION 2 **HAZARD(S) IDENTIFICATION**

Hazard Classification: **Health Hazards**
 Carcinogenicity, Category 1A
 Acute Toxicity (Oral), Category 4
 Skin Corrosion/Irritation, Category 2
 Serious Eye Damage/Eye Irritation, Category 2A
 Skin Sensitization, Category 1A

Pictogram(s):



Signal Word: DANGER

Hazard Statements: H302 - Harmful if swallowed.
 H315 - Causes skin irritation.
 H317 - May cause an allergic skin irritation.
 H319 - Causes serious eye irritation.
 H350 - May cause cancer.

Precautionary Statements: **Prevention**
 P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

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- P264 - Wash face, hands, and any exposed skin thoroughly after handling.
- P270 - Do not eat, drink, or smoke when using this product.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear protective gloves.
- P281 - Use personal protective equipment as required.

Response

- P301+P312+P330 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338+P337+P315 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- P308+P315 - IF EXPOSED OR CONCERNED: Get medical advice/attention.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.

Storage

- P405 - Store locked up.

Disposal

- P501 - Dispose of contents/container to an approved waste disposal plant.

Other Information:

- Unknown Acute Toxicity:** - 52% of the mixture consists of ingredient(s) of unknown toxicity.
- Harmful to aquatic life with long lasting effects.

SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

Chemical Name	CAS Number	Concentration (%)	Trade Secret
Silica, Quartz*	14808-60-7	20 – 30%	*
Bisphenol A – Epichlorohydrin polymer	25068-38-6	10 – 20%	*
Amorphous Silica (Silicon Dioxide)*	7631-86-9	0 – 10%	*
Alkyl (C12-14) Glycidyl Ether	68609-97-2	0 – 10%	*
Titanium Dioxide*	13463-67-7	0 – 10%	*

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.

*The hazards of the listed Silica, Quartz (14808-60-7), Amorphous Silica (Silicon Dioxide) (7631-86-9), and Titanium Dioxide (13463-67-7) are for their powder unbound forms. When the chemicals are used in applications such as textures or coatings, the chemicals become bound and are not in their hazardous form.

SECTION 4

FIRST-AID MEASURES

- Inhalation:** If affected, move to fresh air.
- Skin Contact:** Wash skin with soap and water.

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Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion:	Clean mouth with water and drink plenty of water afterwards.
Most Important Symptoms and Effects, Both Acute and Delayed:	No information available.
Protection of First-Aiders:	No information available.
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.
Unsuitable Extinguishing Media:	Caution: Use of water spray when fighting fire may be inefficient.
Specific Hazards Arising from the Chemical	No information available.
Explosion Data:	Sensitivity to Mechanical Impact: None. Sensitivity to Static Discharge: None.
Special Protective Equipment for Fire-Fighters:	As in any fire, wear a self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Handling Precautions:	Ensure adequate ventilation, especially in confined areas.
Environmental Precautions:	See Section 12 for additional ecological information.
Cleanup:	Prevent further leakage or spillage if safe to do so. Pick up the absorbed material (described above) and transfer to properly labeled containers for disposal according to local, state, or federal rules and regulations (See Section 13).
Regulatory Requirements:	Follow applicable OSHA regulations (29 CFR 1940.120).

SECTION 7

HANDLING AND STORAGE

Handling Precautions:	Handle in accordance with good industrial hygiene and safety practice.
Storage Requirements:	Keep containers tightly closed in a dry, cool and well-ventilated place. No known incompatible materials based on information supplied.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Basis	Value	Exposure Limit(s)* / Form of Exposure
Silica, Quartz**	14808-60-7	ACGIH TLV	TWA	0.025 mg/m ³ respirable particulate matter
		OSHA PEL	TWA	50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated); 0.1 mg/m ³ respirable dust; (250)/(‰SiO ₂ + 5) mppcf TWA respirable fraction; (10)/(‰SiO ₂ + 2) mg/m ³ TWA respirable fraction.
		NIOSH IDLH	IDLH	50 mg/m ³ respirable dust
		NIOSH IDLH	TWA	0.05 mg/m ³ respirable dust
Titanium Dioxide**	13463-67-7	ACGIH TLV	TWA	10 mg/m ³
		OSHA PEL	TWA	15 mg/m ³ total dust (vacated); 10 mg/m ³ total dust
		NIOSH IDLH	IDLH	5000 mg/m ³
		NIOSH IDLH	TWA	2.4 mg/m ³ CIB 63 fine; 0.3 mg/m ³ CIB 63 ultrafine, including engineered nanoscale
Amorphous Silica (Silicon Dioxide)**	7631-86-9	OSHA PEL	TWA	50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated); 6 mg/m ³ <1% Crystalline Silica; 20 mppcf (80)/(‰SiO ₂) mg/m ³ TWA
		NIOSH IDLH	IDLH	3000 mg/m ³
		NIOSH IDLH	TWA	6 mg/m ³

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this Safety Data Sheet.

**The hazards of the listed Silica, Quartz (14808-60-7), Amorphous Silica (Silicon Dioxide) (7631-86-9), and Titanium Dioxide (13463-67-7) are for their powder unbound forms. When the chemicals are used in applications such as textures or coatings, the chemicals become bound and are not in their hazardous form.

Engineering Measures:

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Worksites should also have accessible showers and eyewash stations in case of emergency.

Personal Protective Equipment:

Respiratory Protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand Protection

Gloves complying with an approved standard should be worn if a risk assessment indicates this is necessary.

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Eye Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	pH:	N/A
Color:	Gray	Water Solubility:	Miscible in Water
Relative Density:	N/A	Solubility in Other Solvents:	N/A
pH:	N/A	Partition Coefficient:	N/A
Odor:	Aromatic	Odor Threshold:	N/A
Solubility:	N/A	Explosive Properties:	N/A
Flash Point:	N/A	Evaporation Rate:	N/A
Boiling Point/Range:	N/A	Melting Point:	N/A
VOC:	None	Specific Gravity:	N/A
Flammability Limit in Air:	N/A	Flammability (Solid, Gas):	N/A
Molecular Weight:	N/A	Kinematic Viscosity:	N/A
Density:	1.57	Dynamic Viscosity:	N/A
Softening Point:	N/A	Vapor Density:	N/A
Bulk Density:	N/A	Vapor Pressure:	N/A
Oxidizing Properties:	N/A	Auto-ignition Temperature:	N/A
Remarks:	For exterior use only. Do not use indoors.	Decomposition Temperature:	N/A

SECTION 10

STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	None under normal processing.
Conditions to Avoid:	Extremes of temperature and direct sunlight.
Incompatible Materials:	None known based on information supplied.
Hazardous Decomposition Products:	None known based on information supplied.

SECTION 11

TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

- Inhalation:** No data available.
- Eye Contact:** No data available.
- Skin Contact:** No data available.
- Ingestion:** No data available.

Toxicological Effects:

- Symptoms:** No information available.

Toxicity

Hazardous Ingredient Name	CAS Number	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Bisphenol A – Epichlorohydrin polymer	25068-38-6	= 11400 mg/kg (Rat)	N/A	N/A
Titanium Dioxide*	13463-67-7	>10000 mg/kg (Rat)	N/A	N/A
Amorphous Silica (Silicon Dioxide)*	7631-86-9	7900 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h
Alkyl (C12-14) glycidyl ether	68609-9-2	17100 mg/kg (Rat)	> 3987 mg/kg (Rabbit)	N/A

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Delayed and Immediate Effects As Well As Chronic Effects From Short and Long-Term Exposure:

Sensitization: No information available.

Germ Cell Mutagenicity: No information available.

Carcinogenicity: The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Silica, Quartz (14808-60-7)	A2	Group 1	Known	X
Titanium Dioxide (13463-67-7)	-	Group 2B	-	X
Amorphous Silica (Silicon Dioxide) (7631-86-9)	-	Group 3	Known	X

Reproductive Toxicity: No information available.

STOT – Single Exposure: No information available.

STOT – Repeated Exposure: No information available.

Aspiration Hazard: No information available.

Numerical Measures of Toxicity – Product Information

ATEmix (Oral): 936.00
ATEmix(Dermal): 19,219.00

The above values are calculated based on chapter 3.1 of the GHS document. For exterior use only. Do not use indoors.

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity: 85% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Amorphous Silica (Silicon Dioxide) (7631-86-9)	440: 72h Pseudokirchneriella Subcapitata mg/L EC50	5000: 96h Brachydanio Rerio mg/L LC50 static	7600: 48h Ceriodaphnia Dubia mg/L EC50

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Information: No information available.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Treatment Methods: **Disposal of Wastes:** Disposal should be in accordance with applicable local, state, federal, and international laws and regulations.

Contaminated Packaging: Do not reuse container.

SECTION 14

TRANSPORT INFORMATION

DOT:	Not Regulated	ICAO (air):	Not Regulated
IATA:	Not Regulated	RID:	Not Regulated
IMDG:	Not Regulated	ADR:	Not Regulated
TDG:	Not Regulated	ADN:	Not Regulated
MEX:	Not Regulated		

SECTION 15

REGULATORY INFORMATION

International Inventories Legend:

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	Canadian Domestic Substances List/ Non-Domestic Substances List
EINECS/ ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	Japan Existing and New Chemical Substances
IECSC	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
AICS	Australian Inventory of Chemical Substances

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US Federal Regulations

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 the Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard: No
Chronic Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: 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).

US State Regulations

California Prop 65: **WARNING:** This product can expose you to chemicals including Titanium Dioxide (13463-67-7), Amorphous Silica (Silicon Dioxide) (7631-86-9), and Silica, Quartz (14808-60-7), which are known to the State of California to cause [cancer](#) and Bisphenol A (80-05-7) which is known to the State of California to cause [birth defects or other reproductive harm](#). For more information, go to www.P65Warnings.ca.gov.

US State Right-to-Know Regulations:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Silica, Quartz (14808-60-7)	X	X	X
Titanium Dioxide (13463-67-7)	X	X	X
Amorphous Silica (Silicon Dioxide) (7631-86-9)	-	X	X

US EPA Label Information EPA Pesticide Registration Number: Not applicable.

SECTION 16

OTHER INFORMATION

NFPA:	Health Hazards 2	Flammability 1	Instability 0	Physical & Chemical Properties –
HMIS:	Health Hazards 2	Flammability 1	Physical Hazards 0	Personal Protection X

First Edition: 3/08/2019

Further Information: This SDS was prepared in accordance with OSHA regulatory standards for Toxic and Hazardous Substances: 29 CFR 1910.1200.

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Disclaimer:

This product is not intended for use in food or pharmaceuticals.

To the best of our knowledge, the information contained herein is accurate. However Duro-Last®, Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with care. Although Duro-Last®, Inc. has described herein all of the hazards to which we are currently aware, we cannot guarantee that these are the only hazards which exist.