Duro-Shield™ Silicone Primer: TPO

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Duro-Shield™ Silicone Primer: TPO
Version: 3
Identifier 1: TPO Primer
Identifier 2: 4199, 4198, TPO 1G, TPO 5G
Chemical Family: N/A
Product Use: Primers

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

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

SECTION 2 HAZARD(S) IDENTIFICATION

Hazard Classification:
Health Hazards
Acute Toxicity (Dermal), Category 4
Acute Toxicity (Inhalation: Gases), Category 3
Acute Toxicity (Inhalation: Dusts/Mists), Category 4
Carcinogenicity, Category 2
Specific Target Organ Toxicity (Repeated Exposure), Category 2

Pictogram(s):

Signal Word: DANGER

Hazard Statements:

H312	- Harmful in contact with skin.
H331	- Toxic if inhaled.
H332	- Harmful if inhaled.
H351	- Suspected of causing cancer.
H373	- May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Prevention

P201	- Obtain special instructions before use.
P202	- Do not handle until all safety precautions have been read and understood.
P260	- Do not breathe dust/fume/gas/mist/vapors/spray.
P271	- Use only outdoors or in a well-ventilated area.
P281	- Use personal protective equipment as required.

	Response	
	P302+P352+P321	- IF ON SKIN: Wash with plenty of soap and water. Specific treatment (see Section 4).
	P304+P340	- IF INHALED: Move victim to fresh air and keep at rest in a position comfortable for breathing.
	P308+P313+P311	- IF exposed or concerned: Get medical advice/attention. Call a POSION CENTER or doctor/physician.
	P321	- Specific treatment (see first aid information on the product label).
	P363	- Wash contaminated clothing before reuse.
	Storage	- Store in a well-ventilated place. Keep container tightly closed.
	P403+P233	- Store locked up.
	P405	
	Disposal	- Dispose of contents/container to an approved waste disposal plant.
	P501	
Other Information:	**Unknown Acute Toxicity:**	- 100% of the mixture consists of ingredient(s) of unknown toxicity.
	Other Hazards:	- Causes mild skin irritation. - Toxic to aquatic life with long lasting effects.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

Chemical Name	CAS Number	Concentration (%)
Parachlorobenzotriflouride	98-56-6	90 – 100%
Xylene	1330-20-7	0 – 10%
Ethylbenzene	100-41-4	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.

SECTION 4 FIRST-AID MEASURES

Inhalation: Move to fresh air.

Skin Contact: Wash skin with soap and water.

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: N/A

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.
Containment and Cleanup:	Prevent further leakage or spillage if safe to do so. Pick up the absorbed material and transfer to properly labeled containers for disposal according to federal, state, and local laws 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 cool, dry, well-ventilated place.
Incompatible Materials:	None known based on information supplied.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Basis**	Value	Exposure Limit(s)* / Form of Exposure
Parachlorobenzotriflouride	98-56-6	ACGIH TLV	TWA	2.5 mg/m³ F
		OSHA PEL	TWA	2.5 mg/m³ F; (vacated) 2.5 mg/m³
		NIOSH IDLH	IDLH	250 mg/m³ F
Xylene	1330-20-7	ACGIH TLV	STEL	150 ppm
		ACGIH TLV	TWA	100 ppm
		OSHA PEL	TWA	100 ppm; 435 mg/m³; (vacated) 100 ppm; (vacated) 435 mg/m³
		OSHA PEL	STEL	150 ppm; (vacated) 655 mg/m³
Ethylbenzene	100-41-4	ACGIH TLV	TWA	20 ppm
		OSHA PEL	TWA	100 ppm; 435 mg/m³; (vacated) 100 ppm; (vacated) 435 mg/m³
		OSHA PEL	STEL	125 ppm; (vacated) 545 mg/m³
		NIOSH IDLH	IDLH	800 ppm
		NIOSH IDLH	TWA	100 ppm; 435 mg/m³
		NIOSH IDLH	STEL	125 ppm; 545 mg/m³

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

Basis

ACGIH. Threshold Limit Values (TLV)
NIOSH. Immediately Dangerous To Life or Health (IDLH) Values
OSHA P0. Table Z-1, Limit for Air Contaminant (1989 Vacated Values)
OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminants
OSHA P2. Permissible Exposure Limits (PEL), Table Z-2, TWA's and Ceiling Concentrations
OSHA Z3. Table Z-3, Mineral Dust

Engineering Measures:

The work area(s) should be equipped with showers, eyewash stations, and ventilation systems.

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.

Personal Protective Equipment:

Respiratory Protection
If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

Hand Protection
No special technical protective measures are necessary.

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	**Density:**	1.3
Color:	N/A	**Oxidizing Properties:**	N/A
pH:	N/A	**Decomposition Temperature:**	N/A
Odor:	N/A	**Solubility:**	N/A
Flash Point:	> 100°F	**Explosive Properties:**	N/A
Boiling Point/Range:	N/A	**Evaporation Rate:**	N/A
VOC:	Less than 100 g/L	**Freezing Point:**	N/A

Remarks: For exterior use only. Do not use indoors.

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

Toxicity

Hazardous Ingredient Name	CAS Number	Oral LD_{50} (Rat)	Dermal LD_{50} (Rabbit)	Inhalation LC_{50} (Rat)
Parachlorobenzotriflouride	98-56-6	= 13 g/kg	> 2 mL/kg	= 33 mg/L 4h
Xylene	1330-20-7	= 3,500 mg/kg	> 1,700 mg/kg > 4,350 mg/kg	= 29.08 mg/L 4h = 5,000 ppm 4h
Ethylbenzene	100-41-4	= 3,500 mg/kg	= 1,5400 mg/kg	= 17.4 mg/L 4h

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization: N/A

Germ Cell Mutagenicity: N/A

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Xylene	-	Group 3	-	-
Ethylbenzene	A3	Group 2B	-	X
Parachlorobenzotriflouride	-	-	AB	-

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:

For exterior use only. Do not use indoors.

ATEmix (oral): 11,833.60

ATEmix (dermal): 1,984.62

ATEmix (inhalation-gas): 700.00

ATEmix (inhalation-dust/mix): 1.50

SECTION 12 ECOLOGICAL INFORMATION

Environmental Data

Chemical Name	Species	Fish	Crustacea
Parachlorobenzotriflouride	-	11.5 – 15.8: 48h *Lepomis macrochirus* mg/L LC50 static	3.68: 48h *Daphnia magna* mg/L EC50
Xylene	-	13.4: 96h *Pimephales promelas* mg/L LC50 flow-through 13.5 – 17.3: 96h *Oncorhynchus mykiss* mg/L LC50 780: 96h *Cyprinus carpio* mg/L LC50 semi-static 30.26 – 40.75: 96h *Poecilia reticulata* mg/L LC50 static 7.711 – 9.591: 96h *Lepomis macrochirus* mg/L LC50 static 780: 96h *Cyprinus carpio* mg/L LC50 2.661 – 4.093: 96h *Oncorhynchus mykiss* mg/L LC50 static 13.1 – 16.5: 96h *Lepomis macrochirus* mg/L LC50 23.53 – 29.97: 96h *Pimephales promelas* mg/L LC50 static	3:82: 48h Water Flea mg/L EC50 0.6: 48h *Gammarus lacustris* mg/L LC50
Ethylbenzene	4.6: 72h *Pseudokirchneriella subcapitata* mg/L EC50 2.6 –	11.0 – 18.0: 96h *Oncorhynchus mykiss* mg/L LC50 static	1.8 – 2.4: 48h *Daphnia magna* mg/L EC50

	11.3: 72h *Pseudokirchneriella subcapitata* mg/L EC50 static 1.7 – 7.6: 96h *Psuedokirchneriella subcapitata* mg/L EC50 static 438: *Subcapitata* mg/L EC50	7.55 – 11: 96h *Pimephales promelas* mg/L LC50 flow-through 9.1 – 15.6: 96h *Pimephales promelas* mg/L LC50 static 9.6: 96h *Poecilia reticulata* mg/L LC50 static 32: 96h *Lepomis macrochirus* mg/L LC50 static 4.2: 96h *Oncorhynchus mykiss* mg/L LC50 semi-static	

Ecotoxicity: 1% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Chemical Name	Partition Coefficient
Parachlorobenzotriflouride	3.7
Xylene	2.77 – 3.15
Ethylbenzene	3.2

Other Adverse Effects: No information available.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods: Disposal should be in accordance with any applicable federal, state, or local laws and regulations.

Contaminated Packaging: Do not reuse container.

Chemical Name	RCRA	RCRA – Basic for Listing	RCRA – D Series Wastes	RCRA – U Series Wastes
Xylene	-	Included in waste stream: F039	-	U239
Ethylbenzene	-	Included in waste stream: F039	-	-

Chemical Name	California Hazardous Waste Status
Xylene	Toxic; Ignitable
Ethylbenzene	Toxic; Ignitable

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

TSCA List: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

CERCLA: This material, as supplied, contains one or more substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

CERCLA Reportable Quantity: This material contains Xylene (1330-20-7) with a CERCLA RQ of 100lbs and Ethylbenzene (100-41-4) with a CERCLA RQ of 1,000lbs.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material contains the following components that exceed the threshold (De Minimis) reporting level established by SARA Title III, Section 313:

Xylene (1330-20-7): 1.0%
Ethylbenzene (100-41-4): 0.1%

Clean Water Act: This product contains the following substances which are regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Xylene	100 lb	-	-	X
Ethylbenzene	1,000 lb	X	X	X

California Prop 65: **WARNING**: This product can expose you to chemicals including Ethylbenzene and Parachlorobenzotrifluoride which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

US State Right-to-Know Regulations:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Parachlorobenzotriflouride	X	-	-
Xylene	X	X	X
Ethylbenzene	X	X	X

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

SECTION 16 OTHER INFORMATION

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

Previous Editions: First Published: 12/04/2018
Revised: 03/29/2019; 09/19/2019

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

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.