

Duro-Last[®] Liquid-Applied Flashing Detailer

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
------------------	---

Product Name:	Duro-Last [®] Liquid-Applied Flashing Detailer
Version:	3
Identifier 1:	DL-LAF Detailer
Chemical Family:	Mixture
Product Use:	Micro-fiber enhanced rapid-curing polymethyl methacrylate flashing paste.
 Company Information:	 Duro-Last [®] , Inc. 525 W Morley Dr. Saginaw, MI 48601 Phone: (800) 248-0280 Internet Address: 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 Flammable Liquid, Category 2 Skin Irritation, Category 2 Skin Sensitization, Category 1 Specific Target Organ Toxicity - Single Exposure, Category 3
-------------------------------	--

Pictogram(s):	
----------------------	---

Signal Word:	DANGER
---------------------	--------

Hazard Statements:	H225 - Highly flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.
---------------------------	--

Precautionary Statements:	Prevention	
	P201	- Obtain special instructions before use.
	P202	- Do not handle until all safety precautions have been read and understood.
	P210	- Keep away from sources of ignition, torches, and open flames. No smoking.
	P233	- Keep container tightly closed.
	P240	- Ground/bond container and receiving equipment.
	P241	- Use explosion-proof electrical equipment.
	P242	- Use only non-sparking tools.
	P243	- Take precautionary measures against static discharge.
	P261	- Avoid breathing vapors.
	P264	- Wash hands thoroughly after handling.
	P271	- Use only outdoors or in a well-ventilated area.
	P272	- Contaminated work clothing must not be allowed out of the workplace.
	P280	- Wear Nitrile gloves.
	Response	
	P303+P361 +P353	- IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water.
	P304+P340	- IF INHALED: Move person to fresh air and keep comfortable for breathing.
	P308+P313	- IF exposed or concerned: Get medical advice/attention.
	P312	- Call a POISON CENTER if you feel unwell.
	P321	- Specific treatment (see additional information on this product's label).
	P333+P313	- If skin irritation or rash occurs: Get medical advice/attention.
	P362+P364	- Take off contaminated clothing and wash it before reuse.
	P370+P378	- In case of fire: Use foam, dry extinguishing powder, Carbon Dioxide, or sand to extinguish.
	Storage	
	P403+P235	- Store in a well ventilated place. Keep cool.
	P405+P233	- Store locked up. Keep container tightly closed.
	Disposal	
	P501	- Dispose of container in accordance with federal, state and local regulations.

SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

Chemical Name	CAS Number	Concentration (%)
Quartz*	14808-60-7	15.00 - 25.00%
Methyl Methacrylate, Methyl 2-methylprop-2-enoate, Methyl 2-methylpropenoate	80-62-6	8.00 - 14.00%
2-ethylhexyl Acrylate	103-11-7	5.00 - 10.00%
Naphtha (Petroleum), Hydrodesulfurized Heavy	64742-82-1	0.079 - 0.24%
Non-hazardous Ingredients	N/A	48.00 - 75.00%

*The hazards of the listed Quartz are for its powder unbound form. When the chemical is used in applications such as textures or coatings, the chemical becomes bound and is not in its hazardous form.

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

General First Aid Measures:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the product label where possible).
Inhalation:	Move victim to fresh air and keep in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin Contact:	Rinse skin with water/shower. Immediately remove/take off all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by a warm water rinse. Get medical advice/attention. If irritation develops, consult a specialist.
Eye Contact:	Rinse immediately with plenty of water. Remove contact lenses, if present, and easy to do so. Keep eye(s) wide open while rinsing. Obtain medical attention if pain, blinking, or redness persists.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Never give anything by mouth to an unconscious person.
Most Important Symptoms and Effects, Both Acute and Delayed:	May cause an allergic skin reaction after inhalation. May cause respiratory irritation after inhalation. Causes skin irritation after skin contact.
Protection of First-Aiders:	Move out of dangerous area. Consult a physician. Show this Safety Data Sheet to the doctor in attendance.
Notes to Physician:	Treat symptomatically.

SECTION 5

FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Foam, dry chemical, Carbon Dioxide, water spray, or sand.
Unsuitable Extinguishing Media:	Do not use a heavy water stream.
Fire Hazard:	Highly flammable liquid and vapor.
Explosion Hazard:	May form flammable/explosive vapor-air mixture.
Reactivity:	No data available.
Firefighting Instructions:	Use water spray of fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6

ACCIDENTAL RELEASE MEASURES

General Measures: Remove ignition sources.
Use special care to avoid static electric charges.
No smoking.

Emergency Procedures: **Non-Emergency Personnel**
Evacuate unnecessary personnel.

Emergency Responders
Equip cleanup crew with proper protection.
Ventilate area.

Environmental Precautions: Prevent entry to sewers and public waters.
Notify authorities if liquid enters sewers or public waters.
Local authorities should be advised if significant spillages cannot be contained.

Cleanup: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Collect spillage.
Store away from other materials.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1940.120).

SECTION 7

HANDLING AND STORAGE

Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Handling Precautions: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.
Provide good ventilation in process area to prevent formation of vapor.
No smoking.
Use only non-sparking tools.
Avoid breathing vapors.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Eliminate all ignition sources if safe to do so.
Use only outdoors or in a well-ventilated area.

Hygiene Measures: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.
Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before reuse.

Technical Measures: Proper grounding procedures to avoid static electricity should be followed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical equipment.

Storage Requirements: Keep only in the original container in a cool, well ventilated place away from heat sources, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
Keep in fireproof place.
Keep container tightly closed.

Incompatible Products: Strong bases.
Strong acids.

Incompatible Materials: Sources of ignition and heat.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Basis **	Value	Exposure Limit(s)* / Form of Exposure
Methyl Methacrylate, Methyl 2-methylprop-2-enoate, Methyl 2-methylpropenoate	80-62-6	OSHA	TWA	410 mg/m ³
		OSHA	TWA	100 ppm
Quartz***	14808-60-7	OSHA	-	See Table Z-3

*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)

OSHA P0. Table Z-1, Limit for Air Contaminants (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

***The hazards of the listed Quartz are for its powder unbound form. When the chemical is used in applications such as textures or coatings, the chemical becomes bound and is not in its 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.

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

Nitrile or Butyl Rubber gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye Protection

Safety eyewear, such as chemical goggles or safety glasses complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and Body Protection

Workers must wear long sleeved shirts and long pants.

Hygiene Measures

Do not eat, drink, or smoke during use.

Avoid contact with skin, eyes, and clothing.

Wash hands before breaks and immediately after handling the product.

Remove respiratory and skin/eye protection only after vapors have been cleared from the area.

Remove contaminated clothing and protective equipment before entering eating areas.

Wash contaminated clothing thoroughly before reuse.

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Liquid
Appearance:	Paste
Color:	Gray
Odor:	Characteristic
Solubility:	Insoluble in Water
Flash Point:	< 22°C
Boiling Point:	≈ 101°C
Viscosity, Dynamic:	≈ 9,000cP
VOC Content:	< 10 g/L

SECTION 10**STABILITY AND REACTIVITY**

Reactivity:	No data available.
Chemical Stability:	Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.
Possibility of Hazardous Reactions:	Not established.
Conditions to Avoid:	Extremely high or low temperatures. Open flame.
Incompatible Materials:	Strong acids. Strong bases.
Hazardous Decomposition Products:	Fume. Carbon Monoxide. Carbon Dioxide. May release flammable gases.

SECTION 11**TOXICOLOGICAL INFORMATION**

Acute Toxicity:	Not classified.
------------------------	-----------------

Hazardous Ingredient Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Naphtha (Petroleum), Hydrodesulfurized Heavy	> 5,000 mg/kg (rat)	> 2,000 mg/kg (rabbit)	> 7.63 mg/L/4h (rat)

*NE = No Evidence

Irritation:	Skin irritation.
Sensitization:	May cause an allergic skin reaction. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Duro-Last® Liquid-Applied Flashing Detailer

Component	IARC Group
Methyl Methacrylate, Methyl 2-methylprop-2-enoate, Methyl 2-methylpropenoate (80-62-6)	3 - Not classifiable
2-ethylhexyl Acrylate (103-11-7)	3 - Not classifiable

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Symptoms/Injuries After Inhalation: May cause an allergic skin reaction.
May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

SECTION 12

ECOLOGICAL INFORMATION

Toxicity

Components	Species	Test Results
Naphtha (Petroleum), Hydrodesulfurized Heavy	Pimephales Promelas	LC50; 8.2 mg/L (LL50; EPA 660/3 - 75/009; 96 h; Semi-static system; Fresh water; Experimental value)
	Daphnia Magna	EC50; 4.5 mg/L (EL50; OECD 202: Daphnia sp. Acute Immobilization Test; 48 h; Static system; Fresh water; Experimental value)
	Selenastrum Capricornutum	Threshold Limit; 3.7 mg/L (EC50; OECD 201: Alga, Growth Inhibition Test; 96 h; Static system; Fresh water; Experimental value)

Persistence and Degradability: Naphtha (Petroleum), Hydrodesulfurized Heavy is readily biodegradable in water, highly mobile in soil, and absorbs into the soil. Not established.

All other chemicals were not applicable and/or established.

Bioaccumulative Potential: **Naphtha (Petroleum), Hydrodesulfurized Heavy**
BCF Fish 1: 10-2500, BFC; EPIWIN BCF ($\sqrt{2.15}$).
Low potential for bioaccumulation (BCF < 500).
Not Established.

All other chemicals were either not established or had no available data.

Mobility in Soil: **Naphtha (Petroleum), Hydrodesulfurized Heavy**
Log Koc, SRC PCKOCWIN v1.66; 1.783-2.36; Calculated value.

Other Information: Do not empty into drains; dispose of this material and its container in accordance with federal, state and local regulations. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains, and sewers.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose in a safe manner in accordance with federal, state, and local regulations.
Dispose of container in accordance with federal, state, and local regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14

TRANSPORT INFORMATION

DOT Transport Document Description:	UN1263 Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base), 3 - Flammable Liquid, and II - Medium Danger.
UN-No. (DOT):	1263
DOT NA no.:	UN1263
DOT Proper Shipping Name:	Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base).
Class (DOT):	3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard Labels (DOT):	3 - Flammable Liquid
	
Packing Group (DOT):	II - Medium Danger
DOT Special Provisions (49 CFR 172.102):	<p>149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 Gallons).</p> <p>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.</p> <p>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110kPa at 50°C (1.1 bar at 122 F), or 130kPa at 55°C (1.3 bar at 131°F) are authorized.</p> <p>T4 - 2.65 178.274(d)(2) Normal 178.275(d)(3).</p> <p>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97/1 + A(TR-TF) Where: TR is the maximum mean bulk temperature during transport, and TF is the temperature in degrees Celsius of the liquid during filling.</p> <p>TP8 - A portable tank having a minimum test pressure of 1.5 bar (150kPa) may be used when the flash point of the hazardous material transported is greater than 0°C (32°F).</p> <p>TP28 - A portable tank having a minimum test pressure is 2.65 bar (265kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.</p>

DOT Packaging Exceptions (49 CFR 173.xxx):	150
DOT Packaging Non-Bulk (49 CFR 173.xxx):	173
DOT Packaging Bulk (49 CFR 173.xxx):	242
DOT Quantity Limitations Passenger Aircraft/Rail (49 CFR 173.27):	5 L
DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75):	60 L

DOT Vessel Stowage Location: B - (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Emergency Response Guide (ERG) Number: 128

Transport By Sea

UN-No. (IMDG):	1263
Proper Shipping Name (IMDG):	PAINT
Class (IMDG):	3 - Flammable Liquids
Packing Group (IMDG):	II - Substances Presenting Medium Danger

Air Transport

UN-No. (IATA):	1263
Proper Shipping Name (IATA):	PAINT
Class (IATA):	3 - Flammable Liquids
Packing Group (IATA):	II - Medium Danger

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 Reportable Quantity: This material contains Methyl Methacrylate, Methyl 2-methylprop-2-enoate, Methyl 2-Methylpropenoate, which has a CERCLA RQ of 1,000 lbs.

SARA304 Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

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

SARA 313: This material contains Methyl Methacrylate, Methyl 2-methylprop-2-enoate, Methyl 2-Methylpropenoate, with a threshold (De Minimis) reporting level of 1.0, established by SARA Title III, Section 313.

Clean Air Act: This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Ozone-Depletion Potential: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

California Prop 65: **WARNING:** This product can expose you to chemicals including Quartz, which is known to the State of California to cause [cancer](#) when airborne. For more information, go to www.P65Warnings.ca.gov.

Previous Editions:

First Edition: 01/11/2018
Revision Dates: 03/29/2018
04/30/2019

Further Information:

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

Disclaimer:

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.