

Duro-Shield™ Silicone Brush-Grade Sealant

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
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Product Name: Duro-Shield™ Silicone Brush-Grade Sealant
Version: 2
Identifier 1: Silicone Sealant
Identifier 2: 4253, 4254, 1 G, 3.5G
Chemical Family: N/A
Product Use: Sealant

Company Information: Duro-Last®, Inc.
 525 W Morley Dr.
 Saginaw, MI 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
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Hazard Classification: **Health Hazards**
 Carcinogenicity, Category 1A

Pictogram(s):



Signal Word: DANGER

Hazard Statements: H350 - May cause cancer.

Precautionary Statements:

Prevention P201 P202 P281	-Obtain special instructions before use. -Do not handle until all safety precautions have been read and understood. - Use personal protective equipment as required.
Response P308+P313	- IF exposed or concerned: Get medical advice/attention.
Storage P405	- Store locked up.
Disposal P501	- Dispose of contents/container to an approved waste disposal plant.

Other Information: **Unknown Acute Toxicity:** - 100% of the mixture consists of ingredient(s) of unknown toxicity.

SECTION 3**COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous Ingredients**

Chemical Name	CAS Number	Concentration (%)	Trade Secret
Dimethyl Siloxane, Hydroxy-Terminated	70131-67-8	50 – 60%	*
Silica, Quartz	14808-60-7	30 – 40%	*
Titanium Dioxide (Unbound)*	13463-67-7	0 – 10%	*
Vinyltrimethoxysilane	2768-02-7	0 – 10%	*
Methyl Tris (MEKO) Silane	22984-54-9	0 – 10%	*

*The hazards of the listed Titanium Dioxide 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**

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:	Water
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
Silica, Quartz	14808-60-7	ACGIH TLV	TWA	0.025 mg/m ³ respirable particulate matter
		OSHA PEL	TWA	50 µg/m ³ ; 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 respirable fraction; (10)/(>%SiO ₂ + 2) mg/m ³ 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

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

- 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	pH:	N/A
Color:	N/A	Water Solubility:	N/A
pH:	N/A	Solubility in Other Solvents:	N/A
Odor:	Peppermint	Partition Coefficient:	N/A
Odor Threshold:	N/A	Solubility:	N/A
Flash Point:	>100°C / 212°C	Explosive Properties:	N/A
Boiling Point/Range:	>100°C / 212°C	Evaporation Rate:	N/A
VOC:	N/A	Freezing Point:	N/A
Flammability Limit in Air:	Non-Flammable	Specific Gravity:	N/A
Molecular Weight:	< 25	Flammability (Solid, Gas):	Non-Flammable
Density:	11.5	Kinematic Viscosity:	N/A
Softening Point:	N/A	Dynamic Viscosity:	N/A
Bulk Density:	N/A	Vapor Density:	N/A
Oxidizing Properties:	N/A	Vapor Pressure:	N/A
Decomposition Temperature:	N/A	Auto-ignition Temperature:	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

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 data available.

Toxicity

Chemical Name	CAS Number	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Dimethyl Siloxane, Hydroxy-Terminated	70131-67-8	> 15400 mg/kg (Rat)	> 16 mL/kg (Rabbit)	> 8750 mg/m ³ (Rat) 7h
Titanium Dioxide	13463-67-7	> 10000 mg/kg (Rat)	N/A	N/A
Vinyltrimethoxysilane	2768-02-7	= 7340 µL/kg (Rat)	= 3360 µL/kg (Rabbit)	N/A

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
Silica, Quartz (14808-60-7)	A2	Group 1	Known	X
Titanium Dioxide (13463-67-7)	-	Group 2B	-	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

For exterior use only. Do not use indoors.

ATEmix (oral): 14,434.00

ATEmix (dermal): 14,869.73

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity:	100% of the mixture consists of component(s) of unknown hazards to the aquatic environment.
Persistence and Degradability:	No information available.
Bioaccumulation:	No information available.
Other Adverse Effects:	No information available.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Disposal of Wastes:	Disposal should be in accordance with applicable federal, state, and local 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

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 Title 40 of the Code of Federal Regulations, Part 372.
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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 contains the following substances which are regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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).

US State Regulations

California Prop 65: **WARNING:** This product can expose you to chemicals including Silica, Quartz (14808-60-7) and Titanium Dioxide (13463-67-7) 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
Silica, Quartz (14808-60-7)	X	X	X
Titanium Dioxide (13463-67-7)	X	X	X

US EPA Label Information EPA Pesticide Registration Number: Not applicable

SECTION 16

OTHER INFORMATION

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

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.