

# **SAFETY DATA SHEET**

Issuing Date 16-Aug-2017 Revision Date 03-Nov-2020 Revision Number 3

This document complies with the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### **GHS** product identifier

Product Name DuraShield 310 Resin

Other means of identification

Synonyms DuraShield 310 Resin – Part A, DuraShield 310 Polyol, DuraShield 310 Polyol – Part A,

DuraShield 310-61 Resin, DuraShield 310-61 Resin Part A, DuraShield 310-61 Polyol,

DuraShield 310-61 Polyol Part A

### Recommended use of the chemical and restrictions on use

Recommended Use Resin for Chemical Resistant Coating

Uses advised against Consumer use

# Supplier's details

# **Initial Supplier**

Cloverdale Paint Inc. 400-2630 Croydon Drive Surrey, British Columbia V3Z 6T3

V02 010

#### Manufacturer Address

LifeLast. Inc.

3813 Helios Way, Suite 190 Pflugerville, TX 78660

Telephone number: 512-628-2112

Emergency telephone number

Emergency Telephone

Number

Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

# Classification

This product is considered hazardous according to the criteria set within the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.

Skin Sensitization	Category 1
Specific Target Organ Toxicity (Repeated Exposure)	Category 2

#### Label Elements

#### Signal Word

Warning



### **Hazard Statements**

May cause an allergic skin reaction May cause damage to organs through prolonged or repeated exposure

# Physical and Health Hazards Not Otherwise Classified

Not applicable.

### **Precautionary Statements**

#### Prevention

- Contaminated work clothing should not be allowed out of the workplace.
- · Wear protective gloves.
- Do not breathe dust/fume/gas/mist/vapors/spray.

### **General Advice**

· Get medical attention/advice if you feel unwell

#### Skin

- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.
- · Wash contaminated clothing before reuse.

# Storage

None

#### Disposal

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

# Other information

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** 

DuraShield 310 Resin – Part A , DuraShield 310 Polyol, DuraShield 310 Polyol – Part A, DuraShield 310-61 Resin, DuraShield 310-61 Resin Part A, DuraShield 310-61 Polyol, DuraShield 310-61 Polyol Part A

Chemical Name	CAS-No	Weight %	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Quartz	14808-60-7	15-40	11895	2018-01-12
Titanium dioxide	13463-67-7	0-5	11895	2018-01-12
Carbon black	1333-86-4	0-5	11895	2018-01-12
Diamine	Trade Secret	0-5	11895	2018-01-12
Aliphatic Amine	Trade Secret	0-5	11895	2018-01-12

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**Description of necessary first-aid measures** 

Eye Contact 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.

Skin Contact Wash skin with soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Remove and wash contaminated clothing before re-use.

Inhalation If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

Protection of First-aiders Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid

contact with skin, eyes and clothing.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Rashes. Itching.

Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** May cause sensitization by skin contact.

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u> Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the

**Chemical** 

Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous Combustion** 

**Products** 

Carbon oxides. Nitrogen oxides (NOx).

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Avoid contact with skin, eyes and

clothing. Wear protective gloves.

Environmental Precautions

**Environmental Precautions** Do not allow material to contaminate ground water system. Do not flush into surface water

or sanitary sewer system. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

**Methods for Containment** Dike far ahead of liquid spill for later disposal.

**Methods for Cleaning Up** 

Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use personal protective equipment. Sweep up and shovel into suitable containers for disposal.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Handling** Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

#### Conditions for safe storage, including any incompatibilities

**Storage** Keep container tightly closed.

**Incompatible Products** Strong oxidizing agents. Strong acids.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

# **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable	30/(%SiO2+2) mg/m3 TWA, Total	IDLH: 50 mg/m³ respirable dust
14808-60-7	particulate matter	Dust;250/%SiO2+5) mppcf TWA, respirable fraction; 10/(%SiO2+2) mg/m³ TWA, respirable TWA: 0.1 mg/m³ (vacated)	TWA: 0.05 mg/m³ respirable dust
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 0.1 mg/m³ (vacaled) TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
13463-67-7	TWA. 10 mg/m	(vacated) TWA: 10 mg/m³ total	IDLI I. 3000 IIIg/III
		dust	
Carbon black	TWA: 3 mg/m <sup>3</sup> inhalable	TWA: 3.5 mg/m <sup>3</sup>	IDLH: 1750 mg/m <sup>3</sup>
1333-86-4	particulate matter	(vacated) TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
		, , ,	TWA: 0.1 mg/m <sup>3</sup> Carbon black in
			presence of Polycyclic aromatic
			hydrocarbons PAH

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems

### Individual protection measures, such as personal protective equipment

Eye/Face Protection
Skin and Body Protection
Respiratory Protection

Safety glasses with side-shields. Wear protective gloves/clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing. Remove and wash contaminated clothing before re-use.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Liquid. Appearance Varies.

Odor Faint. Odor Threshold No information available.

Property Values Remarks/ - Method

pН No data available None known Melting Point/Range No data available None known > 232 °C **Boiling Point/Boiling Range** None known > 226 °C Flash Point None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limits in Air

upper flammability limit
lower flammability limit
No data available
No data available

**Vapor Pressure** No data available None known Vapor Density No data available None known **Relative Density** No data available None known **Specific Gravity** 1.3 (25 C) None known **Water Solubility** Insoluble in water. None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known No data available **Viscosity** None known

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) No data available

# 10. STABILITY AND REACTIVITY

Reactivity No data available.

<u>Chemical stability</u> Stable under recommended storage conditions.

<u>Possibility of hazardous reactions</u> None under normal processing.

<u>Hazardous Polymerization</u> Hazardous polymerization does not occur.

<u>Conditions to avoid</u> High temperatures.

<u>Incompatible materials</u> Strong oxidizing agents. Strong acids.

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx).

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** There is no data available for this product

InhalationMay cause irritation.Eye ContactMay cause irritation.

**Skin Contact** May cause allergic skin reaction.

**Ingestion** There is no data available for this product.

#### Numerical measures of toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document:

**LD50 Oral**10109 mg/kg; Acute toxicity estimate **LD50 Dermal**9012 mg/kg; Acute toxicity estimate

Inhalation

**dust/mist** 5.7 mg/L; Acute toxicity estimate

Unknown acute toxicity

Acute Oral Toxicity

Acute Dermal Toxicity

O% of the mixture consists of ingredient(s) of unknown toxicity.

O% of the mixture consists of ingredient(s) of unknown acute oral toxicity

O% of the mixture consists of ingredient(s) of unknown acute dermal toxicity

Acute Inhalation (dust/mist) Toxicity

Acute Inhalation (vapor) Toxicity

Acute Inhalation (vapor) Toxicity

Acute Inhalation (gas) Toxicity

O% of the mixture consists of ingredient(s) of unknown acute inhalation (vapor) toxicity

O% of the mixture consists of ingredient(s) of unknown acute inhalation (gas) toxicity

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quartz	=	·	ı
Titanium dioxide	> 10000 mg/kg (Rat)	-	> 6820 mg/m <sup>3</sup>
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	<del>-</del>
Aliphatic Amine	= 1000 mg/kg (Rat)	-	-

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** rash

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Respiratory or Skin Sensitization

Germ Cell Mutagenicity

Carcinogenicity

May cause sensitization by skin contact.

No information available.

This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz	A2	Group 1	Known	X
Titanium dioxide		Group 2B		X
Carbon black	A3	Group 2B	-	X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 1 - Carcinogenic to Humans

**NTP: (National Toxicity Program)** 

Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)** 

X - Present

**Reproductive Toxicity**STOT - single exposure
No information available.
No information available.

**STOT - repeated exposure** May cause disorder and damage to the: Liver, Blood.

**Aspiration Hazard** No information available.

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Not Classified

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Carbon black 1333-86-4				EC50 24 h: > 5600 mg/L (Daphnia magna)
Aliphatic Amine		LC50 96 h: 46 - 100 mg/L		(Барппа таупа)
		static (Leuciscus idus)		

Persistence and Degradability No information available.

**Bioaccumulation** No information available.

Chemical Name	Log Pow
Aliphatic Amine	2.03

**Mobility** No information available.

Other Adverse Effects No information available.

# 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40

> CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. 
> Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional,

or local regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

# 14. TRANSPORT INFORMATION

DOT Not regulated

**TDG** Not regulated

Not regulated MEX

# 15. REGULATORY INFORMATION

#### International Regulations

Not applicable Ozone depleting substances

**Persistent Organic Pollutants** Not applicable **Hazardous Waste** Not applicable The Rotterdam Convention (Prior Not applicable Informed Consent)

**International Convention for the Prevention of Pollution from Ships**  Not applicable

(MARPOL)

International Inventories

**TSCA** Complies DSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# U.S. Federal Regulations

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.

### SARA 311/312 Hazard Categories

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

# 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) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# U.S. State Regulations

### California Proposition 65

The classification listed below only applies to respirable quartz. The classification listed below only applies to respirable Titanium dioxide and respirable carbon black. This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Quartz	14808-60-7	Carcinogen
Titanium dioxide	13463-67-7	Carcinogen
Carbon black	1333-86-4	Carcinogen

### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Quartz	Х	X	X	-	Х
Titanium dioxide	Х	X	X	=	X
Carbon black	X	X	X	X	X

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

16. OTHER INFORMATION						
NFPA	Health Hazard	2	Flammability	1	Instability 0	Physical and Chemical Hazards -
HMIS *Indicates a chronic h	Health Hazard	2*	Flammability	1	Physical Hazard 0	Personal Protection X

Prepared By LifeLast

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### General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**