SAFETY DATA SHEET

Issuing Date 19-Mar-2018 **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 **Primall-125 Curative**

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Curative 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

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.

Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 2
Specific Target Organ Toxicity (Repeated Exposure)	Category 2

Label Elements

Signal Word
Warning

Hazard Statements
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing genetic defects
May cause damage to organs through prolonged or repeated exposure

Physical and Health Hazards Not Otherwise Classified
Not applicable.

Precautionary Statements

Prevention
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Wash face, hands and any exposed skin thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.

General Advice
- If exposed or concerned: Get medical attention/advice

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

Inhalation
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage
- Store locked up.

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

Other information
No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Cashew, nutshell liquid	8007-24-7	17.0-23.0	-	-
m-Xylene-.alpha., .alpha.`-diamine	1477-55-0	3-4	-	-
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	3-4	-	-
Phenol	108-95-2	1-2	-	-
N,N-Dimethyl-1,3-propanediamine	109-55-7	1-2	-	-

4. FIRST AID MEASURES

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 INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

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

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Itching. Rashes. Irritation

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

Notes to Physician May cause sensitization by skin contact.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media 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 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing

vapors or mists. Wash thoroughly after handling.

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 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ eye protection/ face protection Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed. Store locked up.

Incompatible Products Strong acids, Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
m-Xylene-.alpha., .alpha.`-diamine 1477-55-0	S* Ceiling: 0.1 mg/m^3	(vacated) S* (vacated) Ceiling: 0.1 mg/m^3	Ceiling: 0.1 mg/m^3
Phenol 108-95-2	TWA: 5 ppm S*	TWA: 5 ppm TWA: 19 mg/m^3 (vacated) TWA: 5 ppm (vacated) TWA: 19 mg/m^3 (vacated) S* S*	IDLH: 250 ppm Ceiling: 15.6 ppm 15 min Ceiling: 60 mg/m^3 15 min TWA: 5 ppm TWA: 19 mg/m^3

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 Tightly fitting safety goggles.
Skin and Body Protection Wear protective gloves/clothing.
Respiratory Protection 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 Do not eat, drink or smoke when using this product. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid.	**Appearance**	Red brown.
Odor	Amine.	**Odor Threshold**	No information available.

Property	Values	Remarks/ - Method
pH	10.5	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	101 °C / 214 °F	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	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	0.9897	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	1050 cps	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.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to avoid None known based on information supplied.

Incompatible materials Strong acids, Strong oxidizing agents.

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Harmful if inhaled.
Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation. May cause sensitization by skin contact.
Ingestion	Ingestion may cause irritation to mucous membranes.

Numerical measures of toxicity - Product

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

LD50 Oral	3675 mg/kg; Acute toxicity estimate
LD50 Dermal	3917 mg/kg; Acute toxicity estimate
Inhalation	
dust/mist	4.2 mg/L; Acute toxicity estimate
Vapor	13 mg/L; Acute toxicity estimate

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
m-Xylene-.alpha., .alpha.`-diamine	= 660 mg/kg (Rat)	= 2 g/kg (Rabbit)	= 700 ppm (Rat) 1 h
2,4,6-Tri(dimethylaminomethyl)phenol	= 1200 mg/kg (Rat)	= 1280 mg/kg (Rat)	-
Phenol	= 340 mg/kg (Rat) = 317 mg/kg (Rat)	= 630 mg/kg (Rabbit)	= 316 mg/m^3 (Rat) 4 h
N,N-Dimethyl-1,3-propanediamine	= 922 mg/kg (Rat)	= 600 µl/kg (Rabbit) = 600 µL/kg (Rabbit)	> 4.31 mg/L (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Allergic skin reactions or irritation. Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes. Skin reactions or irritation.

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

Skin corrosion/irritation	Irritating to skin.
Eye damage/irritation	Irritating to eyes.
Respiratory or Skin Sensitization	May cause sensitization by skin contact.
Germ Cell Mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Phenol		Group 3		

IARC: (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to its Carcinogenicity to Humans

Reproductive Toxicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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)

Phenol 108-95-2	EC50 96 h: 0.0188 - 0.1044 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: 187 - 279 mg/L static (Desmodesmus subspicatus) EC50 96 h: = 46.42 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 11.9 - 25.3 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 11.9 - 50.5 mg/L flow-through (Pimephales promelas) LC50 96 h: 20.5 - 25.6 mg/L static (Pimephales promelas) LC50 96 h: 23.4 - 36.6 mg/L static (Oryzias latipes) LC50 96 h: 33.9 - 43.3 mg/L flow-through (Oryzias latipes) LC50 96 h: 34.09 - 47.64 mg/L static (Poecilia reticulata) LC50 96 h: 4.23 - 7.49 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: 5.0 - 12.0 mg/L (Oncorhynchus mykiss) LC50 96 h: 5.449 - 6.789 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: 7.5 - 14 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 0.00175 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 11.5 mg/L semi-static (Lepomis macrochirus) LC50 96 h: = 13.5 mg/L static (Lepomis macrochirus) LC50 96 h: = 27.8 mg/L (Brachydanio rerio) LC50 96 h: = 31 mg/L semi-static (Poecilia reticulata) LC50 96 h: = 32 mg/L (Pimephales promelas)	EC50 21 - 36 mg/L 30 min EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min	EC50 48 h: 10.2 - 15.5 mg/L (Daphnia magna) EC50 48 h: 4.24 - 10.7 mg/L Static (Daphnia magna)
N,N-Dimethyl-1,3-propanediamine 109-55-7	EC50 72 h: = 56.2 mg/L (Desmodesmus subspicatus) EC50 96 h: = 57.5 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 122 mg/L static (Leuciscus idus)	EC50 = 95 mg/L 17 h	EC50 48 h: = 59.5 mg/L (Daphnia magna)

Persistence and Degradability No information available

Bioaccumulation No information available

Chemical Name	Log Pow
Phenol	1.5
N,N-Dimethyl-1,3-propanediamine	-0.352

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. In addition, consult with 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

MEX Not regulated

15. REGULATORY INFORMATION

International Regulations

Ozone depleting substances Not applicable
Persistent Organic Pollutants Not applicable
Hazardous Waste

Chemical Name	Basel Convention (Hazardous Wastes)
Phenol	Y39

The Rotterdam Convention (Prior Informed Consent) Not applicable
International Convention for the Prevention of Pollution from Ships (MARPOL) Not applicable

International Inventories

TSCA Complies
DSL/NDSL Complies

Legend
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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Phenol	108-95-2	1-2	1.0

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

Clean Water Act
This product contains the following substances which are regulated 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
Phenol	1000 lb	X	X	X

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

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Phenol	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
m-Xylene-.alpha., .alpha.`-diamine	X	X	X		X
Phenol	X	X	X	X	X
N,N-Dimethyl-1,3-propanediamine	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 **Health Hazard** 2* **Flammability** 1 **Physical Hazard** 0 **Personal Protection** X

**Indicates a chronic health hazard.*

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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