



SAFETY DATA SHEET

ELASTOCRETE

LIMITLESS CONCRETE

Original 5/31/2015

SECTION 1: Identification

Product Name: ElastoCrete WB-P53 (PART B) CLEAR

Revision Date: 11/8/17

Package: 1 gal / 3.78 L Pail

Product Description: Liquid Color: Clear Odor: Mild

Intended Use: decorative, restorative

Company - Manufacturer: ElastoCrete LLC

688 Chad Ranch Road Veyo, UT 84782 USA

USA Web Address: www.elastocrete.com

Contact General: Domestic ... 1-435-772-1345 International ... 001-602-570-8333

Contact 24-Hour Emergency:

PERS Domestic at 1-800-535-5053

PERS International at +1-352-323-3500

SECTION 2: Hazard(s) Identification

FLAMMABILITY:	3
INHALATION:	4
SKIN CORROSION:	1
EYE DAMAGE:	1
SKIN SENSITIZATION:	1
AQUATIC:	3



Signal Word: **DANGER!**

Hazard Statements:

H226: Flammable liquid and vapor

H304: May be fatal if swallowed or enters airway

H317: May cause allergic skin reaction

H318: Causes serious eye damage

H332: Harmful if inhaled

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335: May cause respiratory tract irritation

H412: Harmful to aquatic life with long lasting effects

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 heat and sparks
- P240: Ground bond container and receiving equipment
- P241: Use explosion proof electrical ventilation and lighting
- P242: Use only non-sparking tools
- P243: Take precautionary measures against static discharge
- P260: Do not breathe vapors / mist / fumes
- P270: Do not eat, drink, or smoke when using this product
- P271: Use outdoors or in well-ventilated area.
- P272: Contaminated work clothing should not be in workplace.
- P280: Wear protective equipment: gloves, clothing, eye, face shields.

Precautionary Statements (Response):

- P303+P361+P353: IF ON SKIN (OR HAIR): Remove all contaminant immediately and rinse, shower thoroughly.
- P333+P311: If skin irritation or rash, call poison control, doctor/physician
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes, removes contacts lenses.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P301+P331: IF SWALLOWED: Rinse mouth, drink water or milk. DO NOT induce vomiting. Contact physician immediately.
- P337+P313: IF EYE IRRITATION PERSISTS: Get medical attention/advice
- P362+P364: Remove contaminated clothing and wash before reuse
- P370+P378: In case of fire use dry chemical, carbon dioxide, foam or water spray

STORAGE

- P233: Keep container tightly closed, locked up and keep away from children and pets
- P403+P235: Store well ventilated and cool place

DISPOSAL

- P501: Dispose in container per approved by waste disposal plant

SECTION 3: Composition and Information on Ingredients

This material is regulated as a mixture.

Ingredients / Components	CAS #	EC #	WT%
Butylacetate	000123-86-4	n/a	5-10
Polyoxehylene Tridecyl Ether Phosphate	009046-01-9	n/a	1-5
Hexamethylene- 1,6-Diisocyanate	00822-06-0	n/a	0.1-1.0
Isophorone Diisocyanate	004098-71-9	n/a	0.1-1.0
Dipropylene Glycol , Monomethyl ether Acetate	088917-22-0	n/a	7-15
Homopolymer of Hexamethylene Diisocyanate	028182-81-2	n/a	40-75

Homopolymer of Isophorone Diisocyanate	053880-050-0	n/a	7-20
Alkyletheramine	Proprietary	n/a	Proprietary

Additional information: Balance of other ingredients is non-hazardous or is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

SECTION 4: First-Aid Measures

General: Move away from affected area and make person comfortable. Treat all symptoms.

Eye Contact: Rinse with running water for 15 minutes. Hold eyelids apart while irrigating. Call physician immediately.

Skin Contact: Wash affected area thoroughly with pH-neutral soap or mild detergent and water for 15 minutes. Wash clothing before re-use. Seek medical attention for prolonged exposure to wet product.

Inhalation: Move to fresh air. Get medical attention if coughing and other symptoms do not subside. Support breathing by giving O₂ / artificial respiration. Continued labored breathing seek medical attention.

Ingestion: Get medical attention immediately. Do not induce vomiting. Give 3-4 glasses of water or milk if person is conscious.

Physician Notes:

Eyes: Stain for evidence of corneal injury. If cornea burned, instill antibiotic steroid as needed.

Skin: Treat symptomatically for dermatitis or burns.

Ingestion: No antidote. Treat symptomatically. Vomiting can further increase irritation.

Inhalation: Material should be further removed per symptoms to reduce exposure to isocyanate.

SECTION 5: Fire-Fighting Measures

Extinguishing Media:

Appropriate: Use Water Fog, Carbon Dioxide, Dry Chemical or Alcohol Foam

Inappropriate: Oxidizing Agent

Fire Fighting Procedures: none other than use NIOSH approved SCBA and Full Protective Equipment (FPN)

Unusual Fire and Explosion Hazard: May give rise to Class B fire.

Hazardous Combustion Products: Avoid oxidizing agent

Flammability Properties:

Flash Point (Method): 40C (104F) TCC (Butylacetate)

Flammable Limits (Approximate volume % in air): LEL: 1.7% UEL: 7.6%

Auto-ignition Temperature: ND

Sensitivity Impact: ND

Sensitivity to Static Discharge: ND

SECTION 6: Accidental Release Measures

Personal precautions: May require NIOSH approved respirator if product becomes airborne. Ventilate area. Avoid contact with eyes, skin, and clothing.

Environmental precautions: Prevent entry into waterways. Keep away from oxidizers.

Methods for clean-up:

Use absorption materials. Shovel up wet material and flush area with water.

SECTION 7: Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Wash thoroughly after exposure to product.

Storage: Store between 40F and 100F in good ventilation. Protect from ignition sources. Containers may be hazardous when empty. Store out of direct sunlight. Automatic sprinklers systems recommended.

SECTION 8: Exposure Control and Personal Protection



Exposure limit values: (ppm)

	OSHA		ACGIH		OTHER
	TWA	STEL	TWA	STEL	
028182-81-2	NE	NE	NE	NE	
053880-05-0	NE	NE	NE	NE	
088917-22-0	NE	NE	NE	NE	
000123-86-4	150	200	150	200	
009046-01-9	NE	NE	NE	NE	
000098-94-2	NE	NE	NE	NE	
000822-06-0	0.005	.02	0.005	NE	
004098-71-9	0.005	.02	0.005	NE	

Occupational exposure controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Respiratory protection: None required in well ventilated areas. Otherwise wear suitable NIOSH approved mask or respirator.

Hand protection: Impervious gloves if contact is anticipated. Nitrile gloves are acceptable.

Eye protection: Safety glasses with side shields.

Skin protection: Minimize skin contact with appropriate long-sleeved clothing. Wash frequently with pH neutral soap.

Hygiene measures:

Observe good industrial hygienic practices. Frequently launder or discard protective clothing, equipment.

Environmental exposure controls:

None are anticipated.

SECTION 9: Physical and Chemical Properties

General

Physical state: liquid

Color: clear or pigmented

Odor: sweet solvent

Safety Data

pH in water: Alkaline

Boiling point: >127C (>260F)
 Flash point: not applicable
 Vapor pressure (mm Hg.): 3.7 mmHg @ 20C (68F)
 Water solubility: Not soluble
 Vapor density (air = 1): ND
 Specific gravity (water = 1): 1.1-1.2
 % Volatiles by Volume: <15%
 % Solids by Weight: 89%

SECTION 10: Stability and Reactivity

Stability: stable

Conditions to avoid: avoid flame otherwise stable

Materials to avoid: peroxides, water, bases, metal compounds, surface active materials

Hazardous decomposition products: high heat or fire, CO CO2, oxides, nitrogen

Hazardous polymerization: may occur at temperatures over 400F (204C).

SECTION 11: Toxicological Information

Acute Toxicity

Route of Exposure	Conclusion / Comments
Inhalation	Acute and chronic may produce damage of contacted tissue of respiratory tract. May cause irritation, cough, expectoration, shortness of breath and lead to headache, dizziness, nausea, narcosis and lung sensitivity.
Ingestion	Can cause mouth esophageal and stomach bleeding. Chronic may lead to internal scarring, lung damage, memory loss and coordination.
Skin	Undiluted contact may cause irritation. Chronic may lead to burns and entry into skin can have similar effects as inhalation.
Eye	May cause burning and corneal edema typically reversible. Chronic may lead to conjunctivitis or corneal damage

ACUTE ORAL TOXICITY- COMPONENTS

HOMOPOLYMER OF HEXAMETHYLENE-1,6- DIISOCYANATE LD50:	>2500mg/kg	SPECIES: RAT
HOMOPOLYMER OF ISOPHORONE DIISOCYANATE LD50:	>14000 mg/kg	SPECIES: RAT
DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE LD50:	>5000 mg/kg	SPECIES: RAT
BUTYL ACETATE	ND	
CYCLOHEXYLDIMETHYLAMINE LD50:	272 mg/kg	SPECIES: RAT
HEXAMETHYLENE-1,6-DIISOCYANATE LD50:	746 mg/kg	SPECIES: RAT
ISOPHORONE DIISOCYANATE LD50:	4814 mg/kg	SPECIES: RAT

ACUTE DERMAL TOXICITY- COMPONENTS

HOMOPOLYMER OF HEXAMETHYLENE-1,6- DIISOCYANATE LD50:	>2000mg/kg	SPECIES: RAT
HOMOPOLYMER OF ISOPHORONE DIISOCYANATE	ND	
DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE LD50:	>2000mg/kg	SPECIES: RAT
N BUTYL ACETATE LD50:	>5000 mg/kg	SPECIES: RAT
CYCLOHEXYLDIMETHYLAMINE LD50:	370 mg/kg	SPECIES: RAT
HEXAMETHYLENE-1,6-DIISOCYANATE LD50:	>7000 mg/kg	SPECIES: RAT
ISOPHORONE DIISOCYANATE LD50:	>7000 mg/kg	SPECIES: RAT

ACUTE INHALATION TOXICITY- COMPONENTS

HOMOPOLYMER OF HEXAMETHYLENE-1,6- DIISOCYANATE LC50/4H:	0.390 mg/l	SPECIES: RAT
HOMOPOLYMER OF ISOPHORONE DIISOCYANATE LC50/4H:	50 mg/l	SPECIES: RAT
DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE LC50/4H:	5.7 mg/l	SPECIES: RAT
N BUTYL ACETATE LC50/4H:	>21mg/l	SPECIES: RAT
CYCLOHEXYLDIMETHYLAMINE LC50/4H:	4.45 mg/l	SPECIES: RAT
HEXAMETHYLENE-1,6-DIISOCYANATE LC50/4H:	0.124 mg/l	SPECIES: RAT
ISOPHORONE DIISOCYANATE LC50/4H:	0.03 mg/l	SPECIES: RAT
OECD TEST GUIDELINE 403		

Carcinogenic Data: OSHA, NTP, IARC

Not classified or listed.

SECTION 12: Ecological Information

AQUATIC TOXICITY: No data

TOXICITY TO BACTERIA: COMPONENTS: ND

CHRONIC AQUATIC TOXICITY:

AQUATIC TOXICITY: NO DATA ON THE PRODUCT ITSELF. BASED ON THE COMPONENTS THE PRODUCT IS ACUTELY HARMFUL FOR AQUATIC ORGANISMS.

ACUTE TOXICITY TO FISH- COMPONENTS

HOMOPOLYMER OF HEXAMETHYLENE-1,6- DIISOCYANATE	LC50 (96 HRS): 100 mg/l
SPECIES: FATHEAD MINNOW	
HOMOPOLYMER OF ISOPHORONE DIISOCYANATE	LC50 (96 HRS): 1.51 mg/l
SPECIES: FISH	
DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	LC50 (96 HRS): 151 mg/l
SPECIES: FATHEAD MINNOW	
N BUTYL ACETATE	LC50 (96 HRS): 18 mg/l
SPECIES: FISH	
CYCLOHEXYLDIMETHYLAMINE	LC50 (96 HRS): 22-46 mg/l
SPECIES: FISH	

ACUTE TOXICITY TO FISH- COMPONENTS

HEXAMETHYLENE-1,6- DIISOCYANATE	LC50 (96 HRS): _82.8 mg/l
SPECIES: BRACHYDANIO RERIO	
ISOPHORONE DIISOCYANATE	LC50 (96 HRS): >72 mg/l
SPECIES: BRACHYDANIO RERIO	

ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS

HOMOPOLYMER OF HEXAMETHYLENE-1,6- DIISOCYANATE	EC50 (48 HRS): 127 mg/l
SPECIES: DAPHNIA MAGNA	
HOMOPOLYMER OF ISOPHORONE DIISOCYANATE	EC50 (48 HRS): 3.36 mg/l
SPECIES: DAPHNIA MAGNA	
DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	EC50 (48 HRS): 2701 mg/l
SPECIES: DAPHNIA MAGNA	
N BUTYL ACETATE	ND
CYCLOHEXYLDIMETHYLAMINE	EC50 (48 HRS): 75 mg/l
SPECIES: DAPHNIA MAGNA	
HEXAMETHYLENE-1,6- DIISOCYANATE	EC50 (48 HRS): _ 89.1 mg/l
SPECIES: DAPHNIA MAGNA	

ISOPHORONE DIISOCYANATE
SPECIES: DAPHNIA MAGNA

LC50 (48 HRS): 27 mg/l

ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS: COMPONENTS

HOMOPOLYMER OF HEXAMETHYLENE-1,6- DIISOCYANATE

EC50 (72 HRS): >1000 mg/l

SPECIES: DESMODESMUS SUBSPICATUS

HOMOPOLYMER OF ISOPHORONE DIISOCYANATE

EC50 (72 HRS): >10000 mg/l

SPECIES: DESMODESMUS SUBSPICATUS

DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

EC50 (72 HRS): >1000 mg/l

SPECIES: GREEN ALGAE

N BUTYL ACETATE

EC50 (72 HRS): 674.7 mg/l

SPECIES: DESMODESMUS SUBSPICATUS

CYCLOHEXYLDIMETHYLAMINE

EC50 (72HRS): >2 mg/l

SPECIES: ALGAE

HEXAMETHYLENE-1,6- DIISOCYANATE

EC50 (72HRS): >77.4 mg/l

SPECIES: DESMODESMUS SUBSPICATUS

ISOPHORONE DIISOCYANATE

LC50 (72 HRS): >70 mg/l

SPECIES: DESMODESMUS SUBSPICATUS

TOXICITY TO BACTERIA: COMPONENTS

HEXAMETHYLENE-1,6- DIISOCYANATE

EC50: > 880mg/l ACTIVATED SLUDGE

CHRONIC AQUATIC TOXICITY

CHRONIC TOXICITY TO AQUATIC INVERTEBRATES

LONG LASTING ADVERSE EFFECTS TO AQUATIC ORGANISMS

PERSISTANCE AND DEGRADABILITY

BIODEGRADABILITY: NOT READILY BIODEGRADABLE (BY OECD CRITERIA)

BIOACCUMULATIVE POTENTIAL

BIOACCUMULATION: ND

PARTITION COEFFICIENT: N-OCTANOL/WATER(LOG POW): ND

MOBILITY IN SOIL: ND

SECTION 13: Disposal Considerations

Methods of disposal: Incineration preferred. Do not allow product to enter drains, water courses, or soil. This material may be safely landfilled in accordance with federal, state, and local environmental control regulations.

Section 14: Transport Information

International transport regulations: This product is not regulated for transport.

UN number: UN1866

UN proper shipping name: UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS BUTYL ACETATE), 3, PG III

Hazard Label and Placard: Flammable Liquid

Transport hazard class: 3

Packing group number (PG): III

Environmental hazards – IMDG Marine Pollutant Code: UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS BUTYL ACETATE), 3, PG III,

ICA/IATA Code: UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS BUTYL ACETATE), 3, PG III,

SECTION 15: Regulatory Information

USDOL – OSHA & MSHA Hazard Communication per Rule 29 CFR 1920.1200

Considered a hazardous chemical under this regulation, and should be part of any hazard communication program

VOC: 125 grams/liter. **AS APPLIED:** 50 grams/liter.

TSCA (USA - Toxic Substance Control Act)

All applicable substances in product are on the TSCA inventory list

SARA Title III (USA – Superfund Amendments and Reauthorization Act)

311/312 Hazard categories for delayed health effects

313 Reportable Ingredients: None

CERCLA (USA – Comprehensive Response Compensation and Liability Act)

None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

This product contains trace elements known to the State of California to cause cancer, birth defects, or reproductive harm. Per California law this warning is provided in the absence of definitive testing to prove the defined risks do not exist.

Federal Hazardous Substance Act

Considered a hazardous substance subject to the statutes promulgated under the subject act.

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

Components of this product identified by CAS number are listed on the DSL

SECTION 16: Other Information

HMIS:	Health	2
	Flammability	2
	Reactivity	1

Recommended restriction: This product is for use by trained professionals after having read the complete SDS.

Key Legend:

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction
FG: Food grade
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
H - statement: Hazard Statement
IATA: International Air Transport Association.
IATA - DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization
ICAO - TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"
IMDG: International Maritime Code for Dangerous Goods
ISO: International Organization for Standardization
logPow: octanol - water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx: Lethal Dose, for xx percent of test population.
ICxx: Inhibitory Concentration for xx of a substance
Ecxx: Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD: Organization for Economic Co - operation and Development
OEL: Occupational Exposure Limit
P - Statement: Precautionary Statement
PBT: Persistent , Bioaccumulative and Toxic
PPE: Personal Protective Equipment
STEL: Short - term exposure limit
STOT: Specific Target Organ Toxicity
TLV: Threshold Limit Value
TWA: Time - weighted average
vPvB: Very Persistent and Very Bioaccumulative
WEL: Workplace Exposure Level
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
DOT: Department of Transportation
FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act
HMIRC: Hazardous Materials Information Review Commission
HMIS: Hazardous Materials Identification System
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
PMRA: Health Canada Pest Management Regulatory Agency
RTK: Right to Know
WHMIS: Workplace Hazardous Materials Information System

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