

SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	LV™
Supplier:	Precision Laboratories, LLC 1429 S. Shields Drive Waukegan, IL 60085
Product Use:	Adjuvant
Emergency telephone number:	(Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call:	(847) 596-3001

2. HAZARDS IDENTIFICATION

GHS Classification:

Metal Corrosion, Category 1, H290

Oral Tox, Category 4, H302

Skin Corrosion, Category 1B, H314

Eye Damage, Category 1, H318

STOT SE, Category 3, H335



H290, H314, H318 H302, H335

Signal Word: Danger

Hazard Statement:

H290: May be corrosive to metals.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

Precautionary Statements:

Prevention

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P260: Do not breathe mist / vapors / spray.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash protective equipment and work clothes thoroughly after handling.

P270: Do not eat, drink or smoke with using this product.

P271: Use only outdoors or in well-ventilated area.

P280: Wear protective gloves / eye protection / face protection.

Response

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell.

P330+P331 Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

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P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 Wash contaminated clothing before reuse.

Storage

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P406 Store in a corrosive resistant / container with a resistant inner liner.

Disposal

P501: Dispose of contents/container to disposal plant in accordance with federal, state and local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
Blend of Water Conditioners and Buffers	Proprietary	N/E	N/E	
Monocarbamide Dihydrogen Sulfate	21351-39-3			20-40
n-Butyl alcohol	71-36-3	100-ppm	15-ppm	0.5 – 1.5
Ethanolamine	141-43-5			5-10

4. FIRST AID MEASURES

IF SWALLOWED: Immediately call a POISON CENTER/doctor or Chemtrec. Rinse mouth. **Do NOT induce vomiting.** If individual is fully conscious, give a large amount of water to drink. Do not give anything by mouth to an unconscious person.

IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash skin thoroughly with soap and water. Immediately call a POISON CENTER/doctor or Chemtrec. Treat Symptomatically. Wash contaminated clothing before reuse.

IF INHALED: Call a POISON CENTER/doctor or Chemtrec if person feels unwell. Remove person to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor or Chemtrec.

Medical Conditions Aggravated by Overexposure: Persons with preexisting dermatitis, respiratory illness or allergic history should exercise extra caution when handling this product.

Other Effects: This product is not a carcinogen by NTP, OSHA and ACGIH.

5. FIREFIGHTING MEASURES

Suitable Extinguishing media: Dry chemical powder, water spray, or alcohol resistant foam. Do not use water jet.

Specific Hazards: Combustion may yield smoke, oxides of carbon, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed. Can be dangerous when exposed to extreme heat and flame. Do not allow water to directly enter storage containers as violent reaction may occur. Responders should consider the need for evacuation based on emitted decomposition products. Flammable hydrogen may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc.

Do not breathe mist / vapor / spay.

PPE and Precautions: Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire-fighting to enter drains or water courses. Wear full protective clothing including self-contained breathing apparatus to protect against possible toxic fumes from products and surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Evacuate the spill area, except for cleanup personnel. Do not allow spills to enter watercourses. Wear NIOSH/MSHA-approved respirator and protective equipment as referenced in Section 8 below. Control spill with adsorbent pads or booms. Recover free liquid. For recovery or disposal, add inert absorbent (sand, earth,

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sawdust, etc.) to spill area and shovel into containers for disposal. Product is slippery under foot; flush smooth surfaces thoroughly.

Disposal: Dispose of collected waste in accordance with federal, state and local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Do not freeze. Protect containers against physical damage. Keep cool and away from heat, sparks and flame. Keep container tightly closed. Wear appropriate equipment and clothing to prevent eye contact and repeated or prolonged skin contact as referenced in Section 8 below. Use in areas with adequate mechanical exhaust ventilation, or wear respirator. Store in original container only. Keep separate from other products to prevent cross contamination. Clean up spilled material immediately. Will corrode incompatible metals such as aluminum, copper, zinc, and mild steel.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: n-Butyl alcohol: OSHA TWA 100-ppm; ACGIH TWA 15-ppm
Ethanolamine: OSHA TWA 3-ppm; ACGIH TWA 3-ppm

Eye/Face Protections: Wear splash-proof chemical safety goggles. Contact lenses should not be worn when working with chemicals.

Skin Protection: Wear chemically impervious gloves, protective apron, long-sleeved shirt, pants and boots to minimize skin contact. As precautions, wash hands and face with mild soap and water before eating, drinking, smoking or using restroom. After each shift, clean all protective equipment, wash work clothes, and shower.

Respiratory Protection: Not required under normal use conditions with good ventilation. Protect against spray mists. Respirator recommended in areas of poor ventilation.

General Protection: Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash thoroughly after handling product.

Note: When selecting personal protective equipment and clothing, follow all of the manufacturer specifications and recommendations that apply to your specific operation and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed. Eye wash fountains and drench showers should be located within a 10 second walk from the work area per ANSI Z358.1-2009.

Personal Protection in Case of Large Spill: Splash goggles, full suit, boots and gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, golden yellow liquid	UEL:	N/D
Odor:	Fatty	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH:	2.0–2.5 @ 0.5% v/v in water	Vapor Density:	N/D
Melting Point:	N/D	Relative Density (lbs/gl):	10.15 ± 0.1
Freezing Point:	N/D	Solubility:	Soluble
Boiling Point:	N/D	Partition Coefficient:	N/D
Flash Point:	>200°F SETA Closed Cup	Autoignition Temperature:	N/D
Evaporation Rate:	N/D	Decomposition Temperature:	N/D
Flammability:	N/D	VOC:	N/D

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10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Flammable hydrogen may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc.
Condition to Avoid:	Extreme heat / open flame / Incompatibles
Incompatible Materials:	Oxidizing agents, strong acids and bases, susceptible metals such as aluminum, tin, lead, and zinc.
Hazardous Decomposition Products:	Not anticipated under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD ₅₀ : 3129 mg/kg (albino rats)
Acute Eye Irritation:	Extremely Irritating – Causes eye damage
Acute Dermal Irritation:	Slightly Irritating (rabbits)
Acute Dermal Toxicity:	LD ₅₀ > 5,000 mg/kg (albino rats)

12. ECOLOGICAL INFORMATION

No ecological data is available for this product. This product is not expected to be harmful to the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Component Waste Numbers:	No EPA Waste Numbers are applicable for this product's components.
Disposal Instructions:	Dispose of material in compliance with applicable federal, state and local environmental regulations. Recycle or rework material if at all possible. Incinerate material at an approved facility, or treat at an acceptable waste treatment facility or municipal waste treatment plant after proper testing and approval of waste samples.
Container Reuse:	An empty container can contain product residue, and should not be reused. If not professionally cleaned and reconditioned, crushing or other means is recommended to prevent unauthorized reuse. Dispose of container to disposal plant in accordance with federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

DOT Proper Shipping Name:	UN 1760, Corrosive Liquids, N.O.S. (monocarbamide dihydrogen sulfate), 8, PG II
DOT Hazard Class:	8
DOT Packaging Group:	II
DOT Label:	8, Corrosive Liquid
IMDG Proper Shipping Name:	UN 1760, Corrosive Liquids, N.O.S. (monocarbamide dihydrogen sulfate), 8, PG II
IMDG Hazard Class:	8
IMDG Packaging Group:	II
Marine Pollutant:	No

15. REGULATORY INFORMATION

TSCA: All components of this product are listed under the regulation of the Toxic Substance Control Act.

WHMIS Classification: D2B E

SARA HAZARD: SARA 311/312 Chemicals (>0.1%): n-Butyl alcohol
SARA 313 Toxic Chemicals (>0.1%): n-Butyl alcohol

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SARA 302 Extremely Hazardous Substances: None.

Proposition 65 – Carcinogens (>0.0%):

- 1,4-dioxane
- Acetaldehyde
- Diethanolamine
- Oxirane

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

- Oxirane

Proposition 65 - Male Repro Toxins (>0.0%):

- Oxirane

N.J. RTK Substances (>1%) :

- Ethanolamine
- Glycerol
- n-Butyl Alcohol

Penn RTK Substances (>1%) :

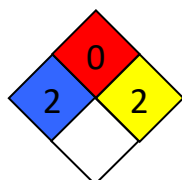
- Ethanolamine
- Glycerol
- n-Butyl Alcohol

16. OTHER INFORMATION

HMIS Hazard Rating

HEALTH	2
FLAMMABILITY	0
REACTIVITY	2
PERSONAL PROTECTION	X

NFPA Rating



Date Prepared: April 26, 2019

WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, PRECISION LABORATORIES, LLC MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

N/R—Not Rated

N/D—Not Determined

N/A—Not Applicable

N/E—Not Established

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.