

SAFETY DATA SHEET

Lloyds Laboratories Inc.

Pure Prep – Part # 25910, 25904, 25920

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

Identification of Preparation: Pure Prep – Part # 25910, 25904, 25920
Date of Safety Data Sheet: 3 March 2016

Use of Preparation: Etches and degreases metal for coating applications.

Company Identification: Lloyds Laboratories Inc.
613, Neal Drive,
Peterborough,
Ontario K9J 6X7

Company Emergency Telephone Number Emergency Phone: 705-876-9997

2. HAZARD IDENTIFICATION

Emergency Overview:

OSHA / WHMIS 2015 Hazards

Corrosive.

Classification of substance or mixture

GHS-US/Canadian classification:

GHS Hazards

Skin Corrosion 1 C H314

Eye Damage 1 H318

Label Elements

GHS Labeling

Hazard Pictograms (GHS):



Signal Word (GHS): Danger

Hazard Statements (GHS):

H314-causes severe skin burns and eye damage.

H318-causes serious eye damage.

H302-Harmful if swallowed.

Precautionary Statements (GHS):

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

P264 Wash thoroughly after handling.

Response (GHS):

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
P303+P361+353- if on skin (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Chemical Blend

Ingredient	CAS#	% by Wt	Classification
Phosphoric Acid	7664-38-2	10-35	Skin Corrosion Category 1B - H314 Eye Damage Category 1 – H318
Alcohol Ethoxylate	68991-48-0	1-5	Eye Irritant Category 2A - H319

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms persist consult physician.
Eye Contact: Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Repeat if required. If irritation persists get medical attention.
Skin Contact: Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.
Ingestion: Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personnel. Never give anything to an unconscious person. Immediately call a POISON CENTRE or doctor/physician.
Notes to Physician: Treatment based on judgment of attending physician.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment needed:

No additional information available.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Any standard extinguishing media (alcohol foam, water spray or fog, CO2 dry chemical, etc.).
Special hazards arising from the substance or mixture: Thermal decomposition generates corrosive vapours.
Unsuitable extinguishing media: Do not use heavy water stream.

**Advise for Firefighters;
Special exposure hazards**

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Special safety equipment: Self-contained positive pressure breathing apparatus and protective clothing.
Fire and explosion Not flammable. Not an explosive hazard.
Further information Keep containers and surrounding cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapour or mist.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE) including safety glasses, protective clothing and gloves.

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately with absorbent and dispose of waste safely.

Reference to Other Sections: See Heading 8. Exposure controls and personal protection.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Hygiene Measures:

Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

Information about fire - and explosion protection:

Keep respiratory protective device available.

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Keep only in the original container, in a cool dry and well ventilated area away from incompatible materials. Keep container closed when not in use.

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Protect from humidity and water.

Unsuitable material for receptacle: steel.

Unsuitable material for receptacle: aluminium.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Do not store together with alkaline products or strong acids.

Store away from oxidizing agents.

Store away from foodstuffs.

Further information about storage conditions:

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Store in cool, dry conditions in well sealed receptacles.
 Store receptacle in a well ventilated area.
 Keep container tightly sealed.
Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Use local exhaust or dilution ventilation.
Hand protection: Chemical resistant gloves.
Eye protection: Safety goggles or full face shield.
Skin protection: Use body-covering impervious clothing.
Working hygiene: Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.
Exposure Guidelines:

Source Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³
Phosphoric Acid 85% W/W	not av.	1mg/m ³	3mg/m ³	1mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Clear Liquid	Odour	Typical-low odour.
Appearance		Odour Threshold	No information available.
Colour	Green		
Property	Values	Remarks/Method	
pH 10 % solution	1.0	None known	
Melting/Freezing Point	No data available	None known	
Boiling Point/Range	Not data available	None known	
Flash Point	None	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air: Upper Limit	No data available	None known	

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Lower Limit	No data available	None known
Vapour Pressure	No data available	None known
Vapour density	No data available	None known
Specific Gravity	1.0 g/cm ³	
Water Solubility	Soluble in water.	None known
Solubility 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
Kinematic Viscosity	No data available	None known
Dynamic Viscosity	No data available	None known
Explosive Properties	No data available	None known
Oxidizing Properties	No data available	None known

Other

Properties:

Softening Point	No data available
VOC Content %	No data available
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity	Thermal decomposition generates corrosive vapours.
Chemical stability	Not established.
Thermal decomposition/conditions to avoid:	Direct sunlight. Extreme high and low temperatures. Reacts with alkali, metals, amines and oxidizing agents. Corrodes aluminium.
Conditions to avoid	Store away from oxidizing agents, strong bases and strong acids
Hazardous decomposition products	Thermal decomposition may yield phosphorous oxides and corrosive vapours. Warning! Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites (e.g. chlorine bleach, sulfides, or cyanides will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat.
Materials to avoid	
Hazardous polymerization	Will not occur

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification

Phosphoric Acid CAS # 7663-38-2:

Oral LD 50 (Rat/) 1,530 mg/kg

Dermal LD 50 (Rabbit) 2,740 mg/kg

Alcohol Ethoxylate CAS # 68991-48-0:

Oral LD 50 (Rat/) 2,000 mg/kg

Primary irritant effect:

on the skin: Causes severe skin burns and eye damage.

on the eye: Causes serious eye damage.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Germ cell mutagenicity: Not classified

Carcinogenicity : Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (multiple exposure): Not classified

Aspiration Hazard: Not classified

Potential adverse human effects and symptoms: Not classified

Symptoms/injuries after eye contact: Causes serious eye damage.

12. ECOLOGICAL INFORMATION

Toxicity: Not classified

Persistence and Degradability: Not available

Bioaccumulative Potential: Not available

Mobility in Soil: Not available.

Other Adverse Effects

Other Information: Avoid release to the environment.

13. DISPOSAL

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology – Waste Materials: Avoid release to the environment.

14. TRANSPORTATION INFORMATION

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Canadian T.D.G.: Regulated Material (quantity under 5 litres can be shipped Limited Quantity)

Proper Shipping Name: Corrosive liquid, N.O.S.

Contains (Phosphoric acid)

Hazard Class: 8

ID Number: UN 1760

Packing Group: III



USA DOT: Regulated Material (quantity under 5 litres can be shipped Limited Quantity)

Proper Shipping Name: Corrosive liquid, N.O.S.

Contains (Phosphoric acid)

Hazard Class: 8

ID Number: UN 1760

Packing Group: III



Water Transportation (IMO): Regulated Material (quantity under 5 litres can be shipped Limited Quantity)

Proper Shipping Name: Corrosive liquid, N.O.S.

Contains (Phosphoric acid)

Hazard Class: 8

ID Number: UN 1760

Packing Group: III



Air Transportation (IATA): Regulated Material (quantity under 5 litres can be shipped Limited Quantity)

Proper Shipping Name: Corrosive liquid, N.O.S.

Contains (Phosphoric acid)

Hazard Class: 8

ID Number: UN 1760

Packing Group: III



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15. REGULATION

Occupational Health & Safety Regulations:

WHMIS Classification: Class D - Division 2B, Class E



OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act) WHMIS 2015

Environmental Regulatory Lists:

SARA: Section 311/312 (Toxic Chemical Release Reporting) 40 CFR 372 – Phosphoric acid- Immediate (acute) health hazard.

Toxic Substances Control Act (TSCA): All the ingredients are listed on the Chemical Substance Inventory

Canadian Non-Domestic Substance List (NDSL): All ingredients are listed.

California Prop. 65

The following components of this product are substances, or belong to classes of substances, known to the state of California to cause cancer and/or reproductive toxicity.

HMIS III Rating:

Health: 3 Hazard

Flammability: 0 Minimal Hazard

Physical: 0 Minimal Hazard

Personal Protection: C

SDS US (GHS HazCom 2012) SDS Canada (GHS WHMIS 2015)

16. OTHER INFORMATION

Prepared By: Technical department, Lloyds Laboratories Inc.
Tel: 1 800 361-6766

Issuing Date: March 3, 2016

Disclaimer:

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet

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