

PL-17

SECTION 1. IDENTIFICATION

Product Identifier	PL-17
Other Means of Identification	Low pH Presoak
Recommended Use	Used as presoak in touchless carwash applications.
Restrictions on Use	None known.
Manufacturer / Supplier	Transchem Inc., 1225 Franklin Blvd, Cambridge, ON, N1R 7E5, 1-800-265-9100, www.transchem.com
Emergency Phone No.	INFOTRAC (U.S.), 1-800-535-5053, 24 Hours CANUTEC (Canada), 613-996-6666, 24 Hours
SDS No.	Ver. 2 (July 14, 2017)
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation - Category 1C; Serious eye damage/eye irritation - Category 1

GHS Label Elements



Signal Word:

Danger

Hazard Statement(s):

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Prevention:

P260 Do not breathe dusts or mists.

P264 Wash hands and skin thoroughly after handling.

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

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE/doctor.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Citric acid	77-92-9	8-14	N/A
Alcohol Ethoxylate	68439-46-3	3-7	N/A
2-(2-Butoxyethoxy)ethanol	112-34-5	1-5	Diethylen Glycol Monobutyl Ether
Phosphoric Acid	7664-38-2	1-3	N/A
2-Butoxyethanol	111-76-2	1-2	Ethylene Glycol Monobutyl Ether, Butyl Cellosolve

Notes

The specific chemical identity and/or exact percentage of composition (concentration) has been withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice/attention if you feel unwell or are concerned.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor.

Ingestion

Rinse mouth with water. Drink large amounts of water. Immediately call a Poison Centre or doctor. Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

Most Important Symptoms and Effects, Acute and Delayed

If on skin: may cause moderate to severe irritation. Repeated or prolonged exposure can irritate the skin. If in eyes: may cause moderate to severe irritation. Symptoms include pain, redness, and swelling.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, skin.

Special Instructions

Rinse affected area (skin, eyes) thoroughly with water.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Chemical

Review Section 10 (Stability and Reactivity) for additional information. Flammable hydrogen; very toxic carbon monoxide, carbon dioxide.

Special Protective Equipment and Precautions for Fire-fighters

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Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up.

Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

Large spills or leaks: dike spilled product to prevent runoff.

Contact emergency services and manufacturer/supplier for advice. Review Section 13 (Disposal Considerations) of this safety data sheet.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment to avoid direct contact with this chemical. See Section 13 (Disposal Considerations) of this safety data sheet.

Conditions for Safe Storage

Store in an area that is: clean, cool, dry. Do not store in metal containers. Store in closed container. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Phosphoric Acid	1 mg/m ³	3 mg/m ³	1 mg/m ³			
2-Butoxyethanol		20 ppm C Skin	50 ppm Skin			
2-(2-Butoxyethoxy)ethanol	10 ppm					

Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: butyl rubber, natural rubber.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance Clear liquid.

Odour Mild

Odour Threshold Not available

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pH	< 2
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.05
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic)
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Unstable under certain conditions - see Conditions to Avoid.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Contact with most metals above this temperature may release hydrogen. Temperatures above 110.0 °C (230.0 °F)

Incompatible Materials

Oxidizing agents (e.g. peroxides), nitrates, chlorates, metals (e.g. aluminum).

Hazardous Decomposition Products

Thermal decomposition: very toxic carbon monoxide, carbon dioxide.

Upon contact with metals: flammable hydrogen gas.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Phosphoric Acid		1530 mg/kg (rat)	2740 mg/kg (rabbit)
Alcohol Ethoxylate		1378 mg/kg (rat)	> 2000 mg/kg (rabbit)
Citric acid		5400 mg/kg (mouse)	
2-Butoxyethanol	450 ppm (female rat) (4-hour exposure)	400-917 mg/kg (rat)	220 mg/kg (rabbit)
2-(2-Butoxyethoxy)ethanol		3384 mg/kg (rat)	2700 mg/kg (rabbit)

Skin Corrosion/Irritation

Human experience shows moderate or severe irritation.

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Serious Eye Damage/Irritation

Human experience shows serious eye irritation. Symptoms include sore, red eyes, and tearing. Prolonged exposure may cause eye damage.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause nose and throat irritation, lung irritation.

Ingestion

Product may be harmful or fatal if swallowed.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system. May cause respiratory tract injury.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
2-Butoxyethanol	Group 3	A3		

No components listed by IARC, ACGIH and NTP.

Reproductive Toxicity

Development of Offspring

No indication from ingredients.

Sexual Function and Fertility

No indication from ingredients.

Effects on or via Lactation

No indication from ingredients.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

All components of this product are biodegradable by Regulation (EC) No 648/2004.

Toxicity

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Phosphoric Acid	138 mg/L (96-hour)			
Alcohol Ethoxylate	11 mg/L (Pimephales promelas (fathead minnow); 96-hour; fresh water)	5.3 mg/L (Daphnia magna (water flea); 48-hour)		
Citric acid	440-760 mg/L (96-hour)	1525 mg/L (Daphnia magna (water flea))		
2-Butoxyethanol	1490-2950 mg/L (Lepomis macrochirus (bluegill); 96-hour)	1550 mg/L (Daphnia magna (water flea); 48-hour)		

2-(2-Butoxyethoxy)ethanol	1300 mg/L (Lepomis macrochirus (bluegill); 96-hour)	> 100 mg/L (Daphnia magna (water flea); 48-hour)		
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Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
Alcohol Ethoxylate	1.5 mg/L			
2-Butoxyethanol	> 100 mg/L (21-day; semi-static)		> 100 mg/L (Daphnia magna (water flea); 21-day; semi-static)	

Persistence and Degradability

(Alcohol Ethoxylate) Degrades rapidly. 80% ThOD, closed bottle, 28 days. (2-Butoxyethanol) Does not degrade rapidly based on quantitative tests. Biodegradable as per OECD 301E tests for ready biodegradability.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Review federal, state/provincial, and local government requirements prior to disposal.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	3264	CORROSIVE LIQUID, Acidic, Inorganic (Phosphoric Acid)	Class 8	III
Canadian TDG	3264	CORROSIVE LIQUID, Acidic, Inorganic (Phosphoric Acid)	Class 8	III

Special Precautions for User Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

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

Consult Transchem Inc. regarding status of ingredients.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are commercially available and presumed to be listed by manufacturer.

Additional USA Regulatory Lists

SARA Title III - Section 313: 2-butoxyethanol (CAS: 111-76-2).

New Jersey Right To Know: Phosphoric acid (CAS: 7664-38-2); 2-butoxyethanol (CAS: 111-76-2).

California Proposition 65: No listed substances are known to be present.

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 2 Flammability - 0 Instability - 0

SDS Prepared By Technical Group

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Revision Indicators SECTION 1. IDENTIFICATION; Other Means of Identification.
SECTION 2. HAZARDS IDENTIFICATION; GHS Classification; GHS Label Elements.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS; Ingredient Information.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES; pH.

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SECTION 10. STABILITY AND REACTIVITY; Incompatible Materials.
SECTION 11. TOXICOLOGICAL INFORMATION; LC50/LD50 values; Serious Eye
Damage/Irritation.
SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity; Chronic Aquatic
Toxicity.

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