

# PL-86

## SECTION 1. IDENTIFICATION

**Product Identifier** PL-86  
**Other Means of Identification** Drying Agent  
**Recommended Use** Used for removal of water and water spots in tunnel car wash 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  
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**Date of Preparation** August 10, 2015

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Skin corrosion/irritation - Category 2; Serious eye damage/eye irritation - Category 2A

### GHS Label Elements



Signal Word:

Warning

Hazard Statement(s):

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary Statement(s):

P264 Wash hands and skin thoroughly after handling.

P280 Wear protective gloves.

P280 Wear eye protection/face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

### Other Hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Quaternary ammonium compounds, dicocoalkyldimethyl, chlorides	61789-77-3	5-10	Di-Alkyl Quaternary Ammonium Chloride
Distillates (Petroleum), Hydrotreated Middle	64742-46-7	5-10	Mineral seal oil

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2-Butoxyethanol	111-76-2	2-5	Ethylene Glycol Monobutyl Ether, Butyl Cellosolve
Alkyl Dimethylamine Oxide	70592-80-2	2-5	N/A
Amines, C14-18 and C16-18-unsatd. alkyl, ethoxylated	68155-39-5	2-5	Ethoxylated Fatty Acid Amine

#### 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. Call a Poison Centre or doctor if you feel unwell or are concerned.

#### Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Clean clothing, shoes and leather goods. If skin irritation occurs get medical advice/attention.

#### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

#### Ingestion

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

### Most Important Symptoms and Effects, Acute and Delayed

If on skin: may cause moderate to severe irritation. If in eyes: may cause moderate to severe irritation. Symptoms include sore, red eyes, and tearing.

### 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

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

#### Unsuitable Extinguishing Media

None known.

### Specific Hazards Arising from the Chemical

Treat as combustible fluid. Do not direct solid stream of water into burning liquid. Contact with water causes violent frothing and spattering.

### Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary. 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

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## Personal Precautions, Protective Equipment, and Emergency Procedures

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

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

### 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. Do NOT use combustible materials such as sawdust. Place used absorbent into suitable, covered, labelled containers for disposal. Large spills or leaks: dike spilled product to prevent runoff.

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

### 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

Separate from incompatible materials (see Section 10: Stability and Reactivity). Comply with all applicable health and safety regulations, fire and building codes.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
2-Butoxyethanol		20 ppm C Skin	50 ppm Skin			
Distillates (Petroleum), Hydrotreated Middle	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>			

### Appropriate Engineering Controls

General ventilation is usually adequate. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. 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: latex rubber, butyl rubber.

#### Respiratory Protection

Not normally required if product is used as directed.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Pink liquid.
Odour	Mild
Odour Threshold	Not available
pH	7 - 9
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	> 200 °F (closed cup)

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<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	Not applicable (upper); Not applicable (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	0.96
<b>Solubility</b>	Soluble in water
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

None known.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

Incompatible materials.

### Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), strong reducing agents (e.g. hydrides).

### Hazardous Decomposition Products

None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
2-Butoxyethanol	450 ppm (female rat) (4-hour exposure)	400-917 mg/kg (rat)	220 mg/kg (rabbit)
Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides		200-2000 mg/kg (rat)	
Alkyl Dimethylamine Oxide		2700 mg/kg (rat)	
Distillates (Petroleum), Hydrotreated Middle	> 10 mg/L (rat) (4-hour exposure)	> 5,000 mg/kg (rat)	> 2000 mg/kg (rabbit)

### Skin Corrosion/Irritation

Human experience shows moderate or severe irritation.

### Serious Eye Damage/Irritation

Human experience shows serious eye irritation. Symptoms include sore, red eyes, and tearing.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

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May cause nose and throat irritation, lung irritation, coughing, headaches.

#### Ingestion

Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

#### Aspiration Hazard

No information was located.

#### STOT (Specific Target Organ Toxicity) - Repeated Exposure

Symptoms may include dry, red, cracked skin (dermatitis).

No data available on this mixture. No indication from ingredients.

#### Respiratory and/or Skin Sensitization

No information was located.

#### Carcinogenicity

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

#### Reproductive Toxicity

##### Development of Offspring

Not known to harm the unborn child.

##### Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

##### Effects on or via Lactation

Not known to cause effects on or via lactation.

#### 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
2-Butoxyethanol	1490-2950 mg/L (Lepomis macrochirus (bluegill); 96-hour)	1550 mg/L (Daphnia magna (water flea); 48-hour)		
Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides	0.195 mg/L (96-hour)	0.3 mg/L (Daphnia magna (water flea); 48-hour)		

##### Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
2-Butoxyethanol	> 100 mg/L (21-day; semi-static)		> 100 mg/L (Daphnia magna (water flea); 21-day; semi-static)	
Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides			0.15 mg/L (Daphnia magna (water flea); 21-day)	

#### Persistence and Degradability

(2-Butoxyethanol) Degrades 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

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

**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)

All ingredients are listed on the DSL/NDSL.

#### USA

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

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

##### Additional USA Regulatory Lists

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

New Jersey Right To Know: 2-butoxyethanol (CAS: 111-76-2).

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

## SECTION 16. OTHER INFORMATION

**NFPA Rating**                      **Health - 1**    **Flammability - 1**                      **Instability - 0**

**SDS Prepared By**                      Technical Group

**Date of Preparation**                      August 10, 2015

**Revision Indicators**                      The following SDS content was changed on October 05, 2017:  
SECTION 2. HAZARDS IDENTIFICATION; GHS Label Elements.  
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS; Ingredient Information.  
SECTION 4. FIRST-AID MEASURES; Eye Contact.  
SECTION 5. FIRE-FIGHTING MEASURES; Extinguishing Media; Specific Hazards Arising from the Chemical.  
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION; Control Parameters; Respiratory Protection.  
SECTION 11. TOXICOLOGICAL INFORMATION; LC50/LD50 values; Serious Eye Damage/Irritation; Carcinogenicity.  
SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity; Chronic Aquatic Toxicity.

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