

## Brake Cleaner

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Brake Cleaner
<b>Part number</b>	PLI-010B
<b>Product Family</b>	Mixture
<b>Recommended Use</b>	Brake parts cleaner.
<b>Restrictions on Use</b>	Not applicable.
<b>Supplier</b>	Performa Lubricants International, Inc., 42 Montrose Crescent, Whitby, ON, L1R 1C5, 905.668.1440 1.800.808.3062
<b>Emergency Phone No.</b>	CANUTEC, +1.613.996.6666, Operation hours: 24/7

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquid - Category 2; Skin corrosion/irritation - Category 2; Serious eye damage/eye irritation - Category 2A; Specific target organ toxicity (single exposure) - Category 3; Aspiration hazard - Category 1

#### GHS Label Elements



Danger

Highly flammable liquid and vapour.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical, ventilating, and lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust, fume, gas, mist, vapours or spray.  
Wash hands and skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTRE/doctor.

IF ON SKIN: Wash with plenty of water.

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IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Call a POISON CENTRE/doctor if you feel unwell.  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use carbon dioxide or dry chemical to extinguish.

Store in a well-ventilated place. Keep container tightly closed.  
Keep cool.  
Store locked up.

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

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Heptane, branched, cyclic and linear	426260-76-6	60 - 100	
2-Propanol	67-63-0	2.5 - 5.0	

#### Notes

Concentrations are expressed in % volume/volume.

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Remove person to fresh air and keep comfortable for breathing.  
If not breathing, give artificial respiration, immediately call a poison centre.

##### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs get medical advice/attention. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). 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. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

##### Ingestion

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. Do not induce vomiting. Drink two glasses of water. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again.

##### First-aid Comments

Get medical advice/attention if you feel unwell or are concerned.

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

Not applicable.

#### Immediate Medical Attention and Special Treatment

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### Special Instructions

Not applicable.

### Medical Conditions Aggravated by Exposure

None known.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide or dry chemical. Use water to keep non-leaking, fire-exposed containers cool.

#### Unsuitable Extinguishing Media

Do not use a direct stream of water.

### Specific Hazards Arising from the Chemical

Flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air. vapours are heavier than air. May travel a considerable distance to a source of ignition and flash back to a leak or open container.

Carbon oxides, and other unidentified organic compounds.

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

Use extreme caution, fight fire from a safe distance or a protected location.

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

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Eliminate all ignition sources. Use grounded, explosion-proof equipment.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

### Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Do not spray on an open flame or other ignition source. Do not pierce or burn container, even after use. Do not weld, cut or perform hot work on empty container until all traces of product have been removed. General hygiene considerations: wash hands thoroughly after handling this material.

### Conditions for Safe Storage

Store at temperatures not exceeding: 35°C.

Store in a closed container. Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet. Store in an area that is: cool, dry, well-ventilated.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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## Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL [C]	TWA	Ceiling
Heptane, branched, cyclic and linear	400 ppm	500 ppm	2000 mg/m3	Not established
2-Propanol	200 ppm A4	400 ppm	980000 mg/m3	Not established

### Appropriate Engineering Controls

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. Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Control static electricity discharges which includes bonding of equipment to ground.

### Individual Protection Measures

#### Eye/Face Protection

Safety glasses with side shields. Contact lenses should not be worn.

#### Skin Protection

Gloves made of: neoprene, nitrile.

#### Respiratory Protection

Not normally required if product is used as directed.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear colourless liquid.
Odour	Petroleum
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting)
Initial Boiling Point/Range	Not available
Flash Point	-8 °C (method not specified)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1
Relative Density (water = 1)	0.700 at 15 °C
Solubility	Negligible in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	< 14 centistokes at 40°C (kinematic)
Other Information	
VOCs %	100
Flame projection	Not applicable
NFPA Classification	Flammable liquid, Class 1B

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

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Hazardous polymerization will not occur.

#### **Chemical Stability**

Normally stable.

#### **Possibility of Hazardous Reactions**

None expected under normal conditions of storage and use.

#### **Conditions to Avoid**

Open flames, sparks, static discharge, heat and other ignition sources.

#### **Incompatible Materials**

Increased risk of fire and explosion on contact with: strong oxidizing agents (e.g. perchloric acid).

#### **Hazardous Decomposition Products**

Carbon oxides. And other unidentified organic compounds.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Reports have associated repeated and prolonged occupational overexposure to various organic solvents with internal organ, brain and nervous system damage.

#### **Likely Routes of Exposure**

Inhalation.

Skin contact.

Eye contact.

Ingestion.

#### **Acute Toxicity**

<b>Chemical Name</b>	<b>LC50</b>	<b>LD50 (oral)</b>	<b>LD50 (dermal)</b>
Heptane, branched, cyclic and linear	~ 25000 ppm (rat) (4-hour exposure)	> 15000 mg/kg (rat)	Not available
2-Propanol	17000 ppm (rat) (4-hour exposure)	4720 mg/kg (male rat)	12890 mg/kg (rabbit)

#### **Skin Corrosion/Irritation**

Moderate to severe irritant.

#### **Serious Eye Damage/Irritation**

Moderate to severe irritant. Animal tests show mild irritation. The vapour also irritates the eyes. Symptoms include slight redness and pain.

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

##### **Inhalation**

May cause nose and throat irritation.

##### **Skin Absorption**

No information was located.

##### **Ingestion**

If large amounts are swallowed symptoms may include nausea, vomiting, stomach cramps and diarrhea.

#### **Aspiration Hazard**

May cause lung damage if aspirated based on physical properties (e.g. kinematic viscosity) and chemical family (hydrocarbon).

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

No information was located.

### Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

Not known to be a skin sensitizer.

### Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Heptane, branched, cyclic and linear	Not Listed	Not evaluated	Not Listed	Not Listed
2-Propanol	A4	Group 3	Not Listed	Not Listed

No components are listed as carcinogens by ACGIH, IARC, NTP or OSHA.

### Reproductive Toxicity

#### Development of Offspring

No information was located.

#### Sexual Function and Fertility

No information was located.

#### Effects on or via Lactation

No information was located.

### Germ Cell Mutagenicity

No information was located.

### Interactive Effects

No information was located.

### Other Information

isopropanol increases the hepatotoxic effects of chlorinated aliphatic hydrocarbons,

No information was located for: Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

## SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS. This section is not required by OSHA.

### Toxicity

The product itself has not been tested.

### Persistence and Degradability

The product itself has not been tested.

### Bioaccumulative Potential

The product itself has not been tested.

### Mobility in Soil

The product itself has not been tested.

### Other Adverse Effects

The product itself has not been tested.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water. Empty containers retain product residue. Follow label warnings even if container appears to be empty. Dispose of in accordance with municipal, provincial/state or federal regulations.

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## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1993	Flammable liquid, n.o.s. (heptane, isopropanol)	3	II
IATA (Air)	UN1993	Flammable liquid, n.o.s. (heptane, isopropanol)	3	II
IMDG (Marine)	UN1993	Flammable liquid, n.o.s. (heptane, isopropanol)	3	II

**Special Precautions for User** Please note: Flash point -8°C

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

Not applicable

**Emergency Response Guide No.** 128 EmS F-E, S-E

**Other Information** ICAO/IATA PI Y341/353/364  
Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are met.

## 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.

##### **CEPA - National Pollutant Release Inventory (NPRI)**

(2-Propanol) Part 1A.

#### USA

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

All ingredients are listed on the TSCA Inventory.

##### **Additional USA Regulatory Lists**

California Proposition 65: Not applicable.

CERCLA: Not applicable.

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 313. (2-Propanol)

Massachusetts Right To Know: Not applicable.

New Jersey Right To Know. (2-Propanol)

Pennsylvania Right To Know. (2-Propanol) Not applicable.

this product has been classified in accordance with Hazcom 2012 §1910.1200.

## SECTION 16. OTHER INFORMATION

**NFPA Rating**      **Health - 2**      **Flammability - 3**      **Instability - 0**

**Based on** Heptane, branched, cyclic and linear

**SDS Prepared By** Regulatory Compliance

**Phone No.** 905.847.0222

**Date of Preparation** May 13, 2015

**Key to Abbreviations** ACGIH® = American Conference of Governmental Industrial Hygienists  
CANUTEC = Canadian Transportation Emergency Centre  
CAS = Chemical Abstract Services  
CCOHS = Canadian Centre for Occupational Health & Safety

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CNS = Central nervous system  
GESTIS Substance Database  
HSDB® = Hazardous Substances Data Bank  
IARC = International Agency for Research on Cancer  
ICAO = International Civil Aviation Organization  
IMDG = International Maritime Dangerous Goods Code  
LC = Lethal concentration  
LD = Lethal dose  
NFPA = National Fire Prevention Association  
NIOSH = National Institute for Occupational Safety and Health  
NTP = National Toxicology Program  
OSHA = US Occupational Safety and Health Administration  
PPM = Parts per million  
STEL = Short term exposure limit  
TDG = Transportation of Dangerous Goods Regulations (Canada)  
TWA = Time weighted average

**References**

Material Safety Data Sheet from manufacturer.  
CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).  
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).  
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS).  
ECHA - European Chemical Agency, Classification and Labelling Inventory  
GESTIS Substance Database  
OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

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