

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Hertel Pro BP 375
Synonym(s) Formula #0010-0040
CAS # Mixture
Product Use Cleaner
Manufacturer Lavo Inc.
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CANUTEC

LEGEND HMIS	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 3
Flammability	0
Physical Hazard	0
Personal Protection	B

2. Hazards Identification

Emergency Overview DANGER -- CORROSIVE
Contains material which may cause cancer.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause chemical burns. May cause blindness.

Skin May cause chemical burns.

Inhalation Harmful if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Target organs Eyes. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms The product may cause burns to eyes, skin and mucous membranes.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Trisodium nitrilotriacetate	5064-31-3	0.1 - 1
Tetrasodium ethylenediamine tetraacetate	64-02-8	1 - 5
Sodium metasilicate	6834-92-0	1 - 5
Potassium hydroxide	1310-58-3	1 - 5
Alcohols, C7-21, ethoxylated	68991-48-0	1 - 5
Sodium xylene sulphonate	1300-72-7	3 - 7
Dipropylene glycol methyl ether	34590-94-8	3 - 7

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin contact	Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Notes to physician	Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties	Not flammable by WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Dry chemical. Alcohol foam. Carbon dioxide. Fog.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.
Storage	Keep out of the reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limit values

Ingredient(s)	Exposure limit values
Alcohols, C7-21, ethoxylated	ACGIH-TLV Not established
Dipropylene glycol methyl ether	ACGIH-TLV TWA: 100 ppm STEL: 150 ppm Skin: 100 ppm
Potassium hydroxide	ACGIH-TLV Ceiling: 2 mg/m ³
Sodium metasilicate	ACGIH-TLV Not established
Sodium xylene sulphonate	ACGIH-TLV Not established
Tetrasodium ethylenediamine tetraacetate	ACGIH-TLV Not established
Trisodium nitrilotriacetate	ACGIH-TLV Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye/Face protection

Wear chemical goggles.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Clear.
Colour	Colourless
Form	Liquid
Odour	Not available
Odour threshold	Not available
Physical state	Liquid
pH	12.8 - 13.8
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Flash point	Not available
Evaporation Rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	1.058 - 1.088
Octanol/water coefficient	Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C7-21, ethoxylated	Not available
Dipropylene glycol methyl ether	Not available
Potassium hydroxide	Not available
Sodium metasilicate	Not available
Sodium xylene sulphonate	Not available
Tetrasodium ethylenediamine tetraacetate	Not available
Trisodium nitrilotriacetate	5 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C7-21, ethoxylated	1410 mg/kg rat
Dipropylene glycol methyl ether	5400 mg/kg rat
Potassium hydroxide	214 mg/kg rat
Sodium metasilicate	770 mg/kg mouse; 600 mg/kg rat
Sodium xylene sulphonate	7200 mg/kg rat
Tetrasodium ethylenediamine tetraacetate	2000 mg/kg rat
Trisodium nitrilotriacetate	920 mg/kg rat

Effects of acute exposure

Eye	May cause chemical burns. May cause blindness.
Skin	May cause chemical burns.
Inhalation	Harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
Sensitisation	Non-hazardous by WHMIS criteria.
Chronic effects	Non-hazardous by WHMIS criteria.
Carcinogenicity	Contains a potential carcinogen.

IARC - Group 2B (Possibly Carcinogenic to Humans)

Trisodium nitrilotriacetate 5064-31-3 Monograph 73 [1999]; Monograph 48 [1990] (evaluated as a group)

Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Non-hazardous by WHMIS criteria.
Synergistic Materials	Not available

12. Ecological Information

Ecotoxicity	Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Environmental effects	Not available
Aquatic toxicity	Not available
Persistence and degradability	Not available

Bioaccumulation/accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available
Other adverse effects	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)
Hazard class	8
UN number	UN3266
Packing group	II
Additional information:	
Special provisions	16
Packaging exceptions	Limited Quantity <1L



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Dipropylene glycol methyl ether	34590-94-8	1 %
Potassium hydroxide	1310-58-3	1 %
Sodium metasilicate	6834-92-0	1 %

WHMIS classification Class D - Division 2A, Class E - Corrosive Material

WHMIS status Controlled

WHMIS labeling



Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
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Prepared by	Dell Tech Laboratories Ltd. (519) 858-5021
Other Information	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.