



GAP PROFESSIONAL PRODUCTS

Safety Data Sheet GAP Long Life Battery Cleaner & Leak Detector

SECTION 1: Identification

1.1 GHS Product identifier

Product name	GAP Long Life Battery Cleaner & Leak Detector
Product number	11049
Brand	GAP Professional Products

1.3 Recommended use of the chemical and restrictions on use

Battery terminal cleaner
Industrial or Automotive Commercial Uses Only. Not for general household use.

1.4 Supplier's details

Name	GAP Professional Products
Address	122 Route 105 Keswick Ridge NB E6L 1B1 Canada
Telephone	(506) 363-9708
Fax	(506) 363-4241
email	info@gapauto.com

1.5 Emergency phone number

For Medical or Transport Emergencies/
Pour les urgences médicales ou de transport
CANUTEC (24 Hours/Heures)
(613) 996-6666

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: WHMIS 2015

- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1

2.2 GHS label elements, including precautionary statements

Pictograms

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1. Corrosion

Signal word

Danger

Hazard statement(s)

H314
H318

Causes severe skin burns and eye damage
Causes serious eye damage

Precautionary statement(s)

P260
P264
P280
P301+P330+P331
P303+P361+P353

P304+P340
P305+P351+P338

Do not breathe dust/fume/gas/mist/vapors/spray.
Wash ... thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
Immediately call a POISON CENTER/doctor/...
Specific treatment (see ... on this label).
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container to ...

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Component	Concentration
Ethylenediamine Tetraacetic Acid, Tetrasodium Salt Dihydrate (CAS no.: 10378-23-1)	1 - 5 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Potassium hydroxide (CAS no.: 1310-58-3; EC no.: 215-181-3; Index no.: 019-002-00-8)	1 - 5 % (weight)
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 1A. HAZARDS: H302 - Harmful if swallowed; H314 - Causes severe skin burns and eye damage. [SCLs/M-factors/ATEs]: Skin Corr. 1A; H314: C ≥ 5 %; Skin Corr. 1B; H314: 2 % ≤ C < 5 %; Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %; Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %	
Tetrapotassium pyrophosphate (CAS no.: 7320-34-5; EC no.: 230-785-7)	5 - 15 % (weight)
CLASSIFICATIONS: Eye damage/irritation, Cat. 2A. HAZARDS: H319 - Causes serious eye irritation.	
CITRIC ACID (CAS no.: 77-92-9; EC no.: 201-069-1)	1 - 5 % (weight)
CLASSIFICATIONS: Eye damage/irritation, Cat. 2A. HAZARDS: No data available.	
Tripropylene Glycol Methyl Ether (CAS no.: 25498-49-1; EC no.: 247-045-4)	1 - 5 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Modified carboxylated styrene-butadiene polymer	1 - 5 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Acid Red Solution	< 1 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

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General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention
In case of skin contact	Immediately flush skin with lots of running water for at least 30 minutes. Remove contaminated clothing and shoes. Wash before reuse.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Not considered a fire hazard.

5.2 Specific hazards arising from the chemical

No specific fire or explosion hazard.

Ethanolamine: Carbon oxides, Nitrogen oxides (NO_x)

5.3 Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection if necessary. Avoid breathing gas, mist, vapors, spray. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let concentrated product enter drains.

6.3 Methods and materials for containment and cleaning up

LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent.
SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. material and place into containers for later disposal. Dispose in suitable waste container.

SECTION 7: Handling and storage

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7.1 Precautions for safe handling

Put on appropriate personal equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials(see Section 10) and food and drink. Do not store under freezing conditions or above 49 C (120 F). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Keep out of reach from children.

Specific end use(s)

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. 2-Butoxyethanol (CAS: 111-76-2 EC: 203-905-0)

PEL (Inhalation): 50 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 240 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 20 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 20 ppm, 97 mg/m³

California permissible exposure limits for chemical contaminants
(Title 8, Article 107)/Skin

TWA (Inhalation): 50 ppm, 240 mg/m³; USA (OSHA)

USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
Contaminants/Skin designation

The value in mg/m³ is approximate

TWA (Inhalation): 5 ppm, 24 mg/m³; USA (NIOSH)

USA. NIOSH Recommended Exposure Limits/Potential for dermal absorption

TWA (Inhalation): 20 ppm; USA (ACGIH)

USA. ACGIH Threshold Limit Values (TLV)/Upper Respiratory Tract irritation Eye irritation Substances for which there is a
Biological Exposure Index or Indices (see BEI[®] section) Confirmed animal carcinogen with unknown relevance to humans

TLV[®] (Inhalation): 20 ppm; USA (ACGIH)

OSHA Annotated Table Z-1, www.osha.gov

2. Potassium hydroxide (CAS: 1310-58-3 EC: 215-181-3)

PEL-C (Inhalation): 2 mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation, Eye irritation, Skin irritation

PEL-C (Inhalation): 2 mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation, Eye irritation, Skin irritation

PEL-C (Inhalation): 2 mg/m³; USA (NIOSH)

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PEL-C (Inhalation): 2 mg/m³; USA (Cal/OSHA)

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Recommended: Chemical splash goggles Ensure that eyewash stations and/or safety showers are close to the workstation location if working with concentrated product.

Skin protection

Recommended: Chemical-resistant gloves. Neoprene Nitrile

Respiratory protection

Recommended: Dust mask or Respirator should be worn if product is used in confined space or used for a prolonged period of time.

SECTION 9: Physical and chemical properties

Appearance, such as physical state and colour	Clear Liquid
Odour	Peculiar Odour
Odour threshold	N/D
pH	7-11.5
Melting point and freezing point	N/A
Initial boiling point and boiling range	>212F
Flash point	None
Evaporation rate	1 (water=1)
Flammability, in the case of solids and gases	N/A
Upper and lower flammability or explosive limits	LEL=N/A UEL=N/A
Vapour pressure	N/D
Vapour density	1.0-1.09 kg/l 60C
Relative density	N/D
Solubility	Water, Alcohols
Partition coefficient — n-octanol/water	N/D
Auto-ignition temperature	N/D
Decomposition temperature	N/D
Viscosity	Thin Liquid
Additional properties	
Explosive properties	None
Oxidising properties	None

SECTION 10: Stability and reactivity

10.1 Reactivity

Contact with incompatible materials.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Stable under normal use conditions.

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10.4 Conditions to avoid

None under normal use conditions.

10.5 Incompatible materials

Strong acids and materials marked 'Oxidizer'.

Potassium hydroxide: Nitro compounds, Organic materials, Magnesium, Copper, Water, reacts violently with: Metals, Light metals, Contact with aluminum, tin and zinc liberates hydrogen gas. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts., vigorous reaction with: Alkali metals, Halogens, Azides, Anhydrides

10.6 Hazardous decomposition products

Potassium hydroxide: Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Potassium oxides

In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity: Oral

DISTILLED WATER: Non Hazardous; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: LD50 >2000 mg/Kg; POTASSIUM HYDROXIDE SOLUTION: LD50 51-300 mg/kg; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: LD50 Rat, >2444mg/kg mg/Kg; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Hazardous; TRIPROPYLENEGLYCOL MONOETHER: LD50 3200 mg/Kg; TRADE SECRET COMPONENT: LD50 2,001 mg/Kg; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Acute Toxicity: Skin

DISTILLED WATER: Non Hazardous; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: Non Hazardous; POTASSIUM HYDROXIDE SOLUTION: LD50 may cause serious burns to human tissue. mg/Kg; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: LD50 Rat, >4640mg/kg mg/Kg; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Hazardous; TRIPROPYLENEGLYCOL MONOETHER: Non Hazardous; TRADE SECRET COMPONENT: Non Hazardous; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Acute Toxicity: Inhalation

DISTILLED WATER: Non Hazardous; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: LD50 May cause damage to the upper respiratory tract. mg/Kg; POTASSIUM HYDROXIDE SOLUTION: Non Hazardous; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: LD50 No data available mg/Kg; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Data Available; TRIPROPYLENEGLYCOL MONOETHER: Non Hazardous; TRADE SECRET COMPONENT: No Data Available; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Skin corrosion/irritation

Acute and delayed symptoms and effects:

May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

Serious eye damage/irritation

Acute and delayed symptoms and effects:

Can cause severe irritation, redness, tearing, blurred vision.

Respiratory or skin sensitization

Acute and delayed symptoms and effects:

Breathing of dust or mist can cause mild to severe irritation of nasal or respiratory passage.

Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

Germ cell mutagenicity

No data available

Carcinogenicity

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Carcinogenicity: Ingredients not listed by OSHA, NTP, IARC.

Reproductive toxicity

No data available.

Specific target organ toxicity (STOT) - single exposure

Primary route of entry: A) Skin B) Inhalation

Specific target organ toxicity (STOT) - repeated exposure

Pre-existing skin, eye and respiratory disorders may be aggravated by exposure to product.

Aspiration hazard

May be harmful if swallowed and enters airways.

Additional information

Acute toxicity: Oral

DISTILLED WATER: Non-hazardous; SODIUM SALT OF ETHYLENEDIAMINETETRAACETIC ACID: LD50 > 2,000 mg/kg; POTASSIUM HYDROXIDE SOLUTION: LD50 51-300 mg/kg; TETRAPOTASSIUM SALT OF DIPHOSPHORIC ACID: LD50 rat, > 2,444 mg/kg mg/kg; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non-hazardous; TRIPROPYLENE GLYCOL MONOETHER: LD50 3,200 mg/kg; TRADE SECRET COMPONENT: LD50 2,001 mg/kg; MODIFIED CARBOXYLATE: ACID RED SOLUTION:

Acute Toxicity: Skin

DISTILLED WATER: Non-hazardous; ETHYLENEDIAMINETETRAACETIC ACID SODIUM SALT: Non-hazardous; POTASSIUM HYDROXIDE SOLUTION: LD50 can cause severe burns to human tissue. mg/Kg; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: LD50 Rat, >4640 mg/kg mg/Kg; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non-hazardous; TRIPROPYLENE GLYCOL MONOETHER: Non-hazardous; TRADE SECRET COMPONENT: Non-hazardous; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

Acute Toxicity: Inhalation

DISTILLED WATER: Non-hazardous; ETHYLENEDIAMINETETRAACETIC ACID SODIUM SALT: LD50 May cause damage to the upper respiratory tract. mg/Kg; POTASSIUM HYDROXIDE SOLUTION: Non-hazardous; DIPHOSPHORIC ACID TETRAPOTASSIUM SALT: LD50 No data available mg/kg; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No data available; TRIPROPYLENE GLYCOL MONOETHER: Non-hazardous; TRADE SECRET COMPONENT: No data available; MODIFIED CARBOXYLATE: ; ACID RED SOLUTION:

SECTION 12: Ecological information

Toxicity

ENVIRONMENTAL DATA: No known significant effects or critical hazards

ECOTOXICOLOGICAL INFORMATION: Not Available

Persistence and degradability

No data available

Bioaccumulative potential

No further information available

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of contents/ container in accordance with the local/regional/national/international regulations. Dispose of empty bottle in the trash or recycle where facilities exist.

SECTION 14: Transport information

14.1 UN Number

None

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14.2	UN Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Transport in bulk according to IMO instruments	None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

CANADA

WHMIS (Canada): This product has been classified according to the hazard criteria of the HPR and the SDS contains all information required by the HPR.

Canadian Domestic Substances List (DSL)

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Canadian Domestic Substances List (DSL)

Chemical name: Potassium hydroxide (K(OH))
CAS number: 1310-58-3

Canadian Domestic Substances List (DSL)

Chemical name: Diphosphoric acid, tetrapotassium salt
CAS number: 7320-34-5

Canadian Domestic Substances List (DSL)

Chemical name: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate
CAS number: 5949-29-1

Canadian Domestic Substances List (DSL)

Chemical name: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-
CAS number: 77-92-9

Canadian Domestic Substances List (DSL)

Chemical name: Propanol, [2-(2-methoxymethylethoxy)methylethoxy]-
CAS number: 25498-49-1

Canadian Domestic Substances List (DSL)

Chemical name: Modified carboxylated styrene-butadiene polymer
ID number 1: 13736-2

SECTION 16: Other information

16.1 Further information/disclaimer

These SDS are written in an effort to provide information to the worker in the workplace and in such a way it can be understood. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of 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.

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16.2 Preparation information
Prepared by Craig Gourley