



## GAP PROFESSIONAL PRODUCTS

### Safety Data Sheet GAP Universal Cooling System Cleaner

#### SECTION 1: Identification

##### 1.1 GHS Product identifier

Product name	GAP Universal Cooling System Cleaner
Product number	40305
Brand	GAP Professional Products

##### 1.3 Recommended use of the chemical and restrictions on use

Cleaner for Automotive cooling system  
Professional Automotive, Industrial, or Commercial uses Only. Not for general consumer 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  
CANUTEC (24 Hours)  
(613) 996-6666

#### SECTION 2: Hazard identification

##### 2.1 Classification of the substance or mixture

###### GHS classification in accordance with: WHMIS 2015

- Acute toxicity, inhalation, Cat. 5
- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B

##### 2.2 GHS label elements, including precautionary statements

# Safety Data Sheet

## GAP Universal Cooling System Cleaner

### Pictograms



1. Corrosion

### Signal word

**Danger**

### Hazard statement(s)

H314 Causes severe skin burns and eye damage  
 H318 Causes serious eye damage  
 H333 May be harmful if inhaled

### Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 Wash ... thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 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 [or shower].  
 P304+P312 IF INHALED: Call a POISON CENTER/doctor/... if you feel unwell.  
 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 CENTER/doctor/...  
 P321 Specific treatment (see ... on this label).  
 P363 Wash contaminated clothing before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container to ...

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Component	Concentration
<b>Water (CAS no.: 7732-18-5; EC no.: 231-791-2)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	<b>60 - 100 % (weight)</b>
<b>Ethylenediamine Tetraacetic Acid, Tetrasodium Salt Dihydrate (CAS no.: 10378-23-1)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	<b>5 - 15 % (weight)</b>
<b>CITRIC ACID (CAS no.: 77-92-9; EC no.: 201-069-1)</b> CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 2A. HAZARDS: No data available.	<b>5 - 15 % (weight)</b>
<b>Monoethanolamine (CAS no.: 141-43-5; EC no.: 205-483-3; Index no.: 603-030-00-8)</b> CLASSIFICATIONS: Flammable liquids, Cat. 4; Serious eye damage/eye irritation, Cat. 1; Specific target organ toxicity following single exposure, Cat. 3; Hazardous to the aquatic environment, short-term (acute), Cat. 2; Hazardous to the aquatic environment, long-term (chronic), Cat. 3; Acute toxicity, inhalation, Cat. 4; Acute toxicity, dermal, Cat. 4; Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 1B. HAZARDS: H227 - Combustible liquid; H302 - Harmful if swallowed; H312 - Harmful in contact with skin; H314 - Causes severe skin burns and eye damage; H318 - Causes serious eye damage; H332 - Harmful if inhaled; H335 - May cause respiratory irritation; H401 - Toxic to aquatic life; H412 - Harmful to aquatic life with long lasting effects. [SCLs/M-factors/ATEs]: STOT SE 3; H335: C ≥ 5 %	<b>1 - 5 % (weight)</b>
<b>ALKYL ETHER SURFACTANT</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	<b>1 - 5 % (weight)</b>

# Safety Data Sheet

## GAP Universal Cooling System Cleaner

### SECTION 4: First-aid measures

#### 4.1 Description of necessary first-aid measures

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	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician if symptoms occur. Wash contaminated clothes before reuse
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses if easy to do. 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

ACUTE: Dermal /Respiratory irritation, vision effects. DELAYED: No symptoms expected.

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

Difficulty breathing, dizziness, extreme drowsiness, eye irritation, loss of vision, skin rash.

### SECTION 5: Fire-fighting measures

#### 5.1 Suitable extinguishing media

Treat surrounding material. Regular foam, Water Spray, Water Fog, carbon dioxide or dry chemical. Spray using fog nozzles. Keep containers cool with water. Use caution when applying carbon dioxide in confined spaces.

#### 5.2 Specific hazards arising from the chemical

Vapors/fumes may be irritating, corrosive, and/or toxic. Fire fighters must be protected from smoke with self contained breathing apparatus. Heavy smoke may obscure vision. Smoke may contain oxides of carbon, nitrogen, sulfur, and chlorine.

-----

CITRIC ACID: Carbon oxides

#### 5.3 Special protective actions for fire-fighters

Wear full protective clothing and self-contained breathing apparatus. Use water spray to cool exposed containers.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs. See Section 8 for recommended personal protective equipment.

#### 6.2 Environmental precautions

# Safety Data Sheet

## GAP Universal Cooling System Cleaner

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 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. Dispose in suitable waste container.

### Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation. dust is formed. For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container(s) tightly closed. Use and store this material at room temperature away from sources of ignition, heat, direct sunlight and hot surfaces. Keep away from any incompatible materials (see section 10)

### Specific end use(s)

Store in original container. Store as directed by manufacturer

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. Monoethanolamine (CAS: 141-43-5)

PEL (Inhalation): 3 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 6 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 3 ppm, (ST) 6 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 3 ppm, (ST) 6 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

STEL (Inhalation): 6 ppm (ACGIH)

Eye irritation. Skin irritation

TLV<sup>®</sup> (Inhalation): 3 ppm (ACGIH)

Eye irritation. Skin irritation

TLV<sup>®</sup> (Inhalation): 3 ppm, (ST) 6 ppm; USA (ACGIH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Showers, eyewash stations, and ventilation systems should be present and in good working order. Wash hands before breaks and at the end of workday.

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

# Safety Data Sheet

## GAP Universal Cooling System Cleaner

### Eye/face protection

Wear safety glasses with side shields (or goggles).

### Skin protection

Wear Nitrile gloves, chemical resistant gloves.

### 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 slightly hazy liquid
Odour	Low Indescript
Odour threshold	Not determined
pH	7.0 - 11.5
Melting point and freezing point	0
Initial boiling point and boiling range	Not Determined
Flash point	N/A Water Based
Evaporation rate	<1 (Butyl Acetate)
Flammability, in the case of solids and gases	Not Determined
Upper and lower flammability or explosive limits	Not Determined
Vapour pressure	<0.99 mmHg (20°C) (based on constituents)
Vapour density	>1 (air=1)
Relative density	1.0-1.09 kg/l 60C
Solubility	100% soluble
Partition coefficient — n-octanol/water	Log KOW > 4 (mineral oil data)
Auto-ignition temperature	Not Determined
Decomposition temperature	Not Available
Viscosity	N/A Water Based

### Additional properties

Physical state	Liquid
Colour	Clear
Explosive properties	Not Determined
Oxidising properties	None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None under normal use conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Stable under normal use conditions.

### 10.4 Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

**Safety Data Sheet**  
**GAP Universal Cooling System Cleaner**

**10.5 Incompatible materials**

Strong oxidizing agents

-----

CITRIC ACID: Oxidizing agents, Bases, Reducing agents, Nitrates

**10.6 Hazardous decomposition products**

Oxides of carbon, oxides of sulfur, oxides of phosphorus, oxides of nitrogen, amines, aliphatic compounds, toxic by-products.

**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Acute Oral Toxicity:

DISTILLED WATER: Non Hazardous;

ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: LD50 >2000 mg/Kg;

MONOETHANOLAMINE: LD50 301-2000 mg/kg;

ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Hazardous

Acute Skin Toxicity:

DISTILLED WATER: Non Hazardous;

ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: Non Hazardous;

MONOETHANOLAMINE: LD50 1001-2000 mg/kg;

ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Hazardous

Acute Toxicity Inhalation:

DISTILLED WATER: Non Hazardous;

ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: LD50 May cause damage to the upper respiratory tract. mg/Kg;

MONOETHANOLAMINE: LD50 10=20mg/l;

ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Data Available

**Skin corrosion/irritation**

DISTILLED WATER: Non Irritating;

ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: Non Irritating;

MONOETHANOLAMINE: Cat 1 Corrosive;

ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Cat 1 Corrosive

**Serious eye damage/irritation**

DISTILLED WATER: Non-Categorized, Suspected Eye Irritant;

ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: Cat 2A Serious Irritation;

MONOETHANOLAMINE: Non-Categorized, Suspected Eye Irritant;

ALKYL ETHER SURFACTANT: Cat 2A Serious Irritation;

2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Cat 1 Serious Damage

**Respiratory or skin sensitization**

Respiratory Sensitization:

DISTILLED WATER: Non Sensitizing;

ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available;

MONOETHANOLAMINE: ; ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Sensitizing

Skin Sensitization:

## Safety Data Sheet

### GAP Universal Cooling System Cleaner

DISTILLED WATER: Non Sensitizing;  
ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available;  
MONOETHANOLAMINE: ; ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Sensitizing

#### **Germ cell mutagenicity**

DISTILLED WATER: No Hazard; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available;  
MONOETHANOLAMINE:  
; ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard

#### **Carcinogenicity**

DISTILLED WATER: No Hazard; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available;  
MONOETHANOLAMINE: ; ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard

#### **Reproductive toxicity**

DISTILLED WATER: No Hazard;  
ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available;  
MONOETHANOLAMINE: ; ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard

#### **Specific target organ toxicity (STOT) - single exposure**

DISTILLED WATER: No Hazard;  
ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available;  
MONOETHANOLAMINE: Cat 3 Transient Toxicant - CNS, Liver, Kidneys;  
ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard

#### **Specific target organ toxicity (STOT) - repeated exposure**

DISTILLED WATER: No Hazard;  
ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: Cat 2 Toxicant- CNS, Liver, Kidneys (animal data);  
MONOETHANOLAMINE: ; ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard

#### **Aspiration hazard**

DISTILLED WATER: No Hazard; ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Hazard; MONOETHANOLAMINE: ;  
ALKYL  
ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: No Hazard

#### **Additional information**

No Other Information Available.

## **SECTION 12: Ecological information**

#### **Toxicity**

DISTILLED WATER: Non Toxic;  
ETHYLENEDIAMINETETRAACETICACID SODIUM SALT: No Data Available;  
MONOETHANOLAMINE: ; ALKYL ETHER SURFACTANT: ; 2-HYDROXYPROPANE-1,2,3-TRICARBOXYLIC ACID: Non Toxic

#### **Persistence and degradability**

Alkaline or Acid cleaners have good biodegradability and are not persistent in the environment.

#### **Bioaccumulative potential**

Alkaline or Acid cleaners are water soluble and have low bioaccumulatoin potential. Information on components is shown below

No further information available

**Safety Data Sheet**  
**GAP Universal Cooling System Cleaner**

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

No data available

**Other adverse effects**

None

**SECTION 13: Disposal considerations**

**Disposal methods**

**Product disposal**

Dispose of accordance in local, and provincial regulations for solvent and oil materials

**Packaging disposal**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Other disposal recommendations**

Prevent the material from entering drains and water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

**SECTION 14: Transport information**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15: Regulatory information**

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

**Canadian Domestic Substances List (DSL)**

All components of this product are listed on the Canadian Domestic Substance List

**Canadian Non-Domestic Substances List (NDSL)**

**SECTION 16: Other information**

This Safety Data Sheet was prepared in good faith from the most recent information available. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED



**Safety Data Sheet**  
**GAP Universal Cooling System Cleaner**

FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.

**16.2 Preparation information**

Prepared by Craig Gourley