



GAP PROFESSIONAL PRODUCTS

Safety Data Sheet GAP Ready 2 Go! HVAC Evap. Disinfectant Foam

SECTION 1: Identification

1.1 GHS Product identifier

Product name	GAP Ready 2 Go! HVAC Evap. Disinfectant Foam
Product number	88270
Brand	GAP Professional Products

1.3 Recommended use of the chemical and restrictions on use

HVAC Evaporator Disinfectant/Cleaner
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 / Pour les urgences médicales ou de transport
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

- Carcinogenicity, Cat. 1A
- Germ cell mutagenicity, Cat. 1B
- Aerosols, Cat. 1

2.2 GHS label elements, including precautionary statements

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Pictograms



1. Health hazard; 2. Flame

Signal word

Danger

Hazard statement(s)

H340	May cause genetic defects [route]
H350	May cause cancer [route]
H222	Extremely flammable aerosol
H229	Pressurized container: may burst if heated
H280	Contains gas under pressure; may explode if heated
H224	Extremely flammable liquid and vapor

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container to ...
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P370+P378	In case of fire: Use ... to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Component	Concentration
N-BUTANE (CAS no.: 106-97-8; EC no.: 203-448-7; Index no.: 601-004-01-8)	15 - 20 % (weight)
CLASSIFICATIONS: Flammable gases, Cat. 1; Fail: No text found to return.; Carcinogenicity, Cat. 1A; Germ cell mutagenicity, Cat. 1B. HAZARDS: H220 - Extremely flammable gas; H340 - May cause genetic defects [route]; H350 - May cause cancer [route].	

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Propane gas (CAS no.: 74-98-6; EC no.: 200-827-9; Index no.: 601-003-00-5)	5 - 10 % (weight)
CLASSIFICATIONS: Flammable gases, Cat. 1; Gases under pressure, compressed gas; US Simple asphyxiants; USH301. HAZARDS: H220 - Extremely flammable gas; H280 - Contains gas under pressure; may explode if heated.	
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride (CAS no.: 68424-85-1; EC no.: 270-325-2)	< 1 % (weight)
CLASSIFICATIONS: Acute toxicity, dermal, Cat. 3; Acute toxicity, oral, Cat. 3; Serious eye damage/eye irritation, Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Skin corrosion/irritation, Cat. 1C. HAZARDS: H301 - Toxic if swallowed; H311 - Toxic in contact with skin; H314 - Causes severe skin burns and eye damage; H318 - Causes serious eye damage; H400 - Very toxic to aquatic life.	
N-Lauroylsarcosine Sodium salt (CAS no.: 137-16-6; EC no.: 205-281-5)	< 1 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
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
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
If swallowed	DO NOT INDUCE VOMITING. Call physician immediately. If conscious give lots of water or milk. Do not give anything by mouth to an unconscious or convulsing person.
Personal protective equipment for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Regular foam, waterfog, carbon dioxide or dry chemical. Keep containers cool with water spray using fog nozzles.

5.2 Specific hazards arising from the chemical

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights and other flames in locations distant from the material handling point.

Propane gas: Carbon oxides

5.3 Special protective actions for fire-fighters

Extremely flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air. Sprayed product will project a flame on contact with an ignition source. Do not use on vehicles unless cool. Containers may explode if heated. Vapours are heavier than air. May travel a considerable distance to a source of ignition and flash back to a leak or open container.

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Carbon oxides, and other unidentified organic compounds.

Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See Section 8 for recommended personal protective equipment.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Solvents

LARGE SPILLS: Dike far ahead of spill to prevent further movement. Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal.

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Dispose of according to local, and Provincial regulations for products containing petroleum distillates.

SECTION 7: Handling and storage

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. Propane gas (CAS: 74-98-6)

PEL (Inhalation): 1000 ppm (OSHA)

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

PEL (Inhalation): 1800 mg/m³ (OSHA)

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

PEL (Inhalation): 1000 ppm (Cal/OSHA)

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

REL (Inhalation): 1000 ppm (NIOSH)

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

2. N-BUTANE (CAS: 106-97-8 EC: 203-448-7)

TWA: 1450 mg/m³

STEL: 1810 mg/m³

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.

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

Eye/face protection

Splash goggles

Skin protection

Chemical resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands after use.

Body protection

Skin Protection: Protective gloves (for hands). Long sleeve shirts and pants should be worn to protect exposed skin.

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	Perfumed
Odour threshold	
pH	10.5
Melting point and freezing point	0 °C
Initial boiling point and boiling range	100 °C
Flash point	>100 °C
Evaporation rate	2.8 (l'eau = 1)
Flammability, in the case of solids and gases	Extremely flammable aerosol
Upper and lower flammability or explosive limits	12.7% (upper); 2% (lower)
Vapour pressure	< 12 hPa
Vapour density	Not Determined
Relative density	1,00 - 1,01 g/cm ³
Solubility	100% soluble
Partition coefficient — n-octanol/water	Not Determined
Auto-ignition temperature	399 °C
Decomposition temperature	Not Determined
Viscosity	Not Determined
Additional properties	
Physical state	Liquid
Colour	Clear

SECTION 10: Stability and reactivity

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10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid

Heat, flames and sparks. Do not store at temperatures under: 3 °C

10.5 Incompatible materials

Avoid contact with acids and strong oxidizers such as permanganate, chlorine, ectoderm. Do not store near acids, carbon dioxide (CO₂), and strong oxidizers such as permanganate, chlorine, ectoderm.

Isopropanol: Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

Propane gas: Strong oxidizing agents

10.6 Hazardous decomposition products

After water evaporates, burning may produce oxides of carbon, traces of sulfur and nitrogen oxides and various hydrocarbons

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

LD50 Oral - Rat - 344 mg/kg

Citation: U.S. Army, Environmental Hygiene Agency Reports. Vol. 5177T7-66/1967,

LD50 Skin - Rabbit - 3340 mg/kg

Citation: U.S. Army, Environmental Hygiene Agency Reports. Vol. 5177T7-66/1967,

N-Lauroylsarcosine Sodium salt

LD50 Oral - Rat - >5000 mg/kg

N-Lauroylsarcosine Sodium salt

LC50 Inhalation (vapour) - 1.67 mg/L - 4 hrs

N-Lauroylsarcosine Sodium salt

LC50 Inhalation (aerosol) - >0.5 mg/L - 4 hrs

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitization

Excessive inhalation of vapors can cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Germ cell mutagenicity

No data available

Carcinogenicity

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

Reproductive toxicity

No data available

Summary of evaluation of the CMR properties

Not 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.

Additional information

Heptane: guinea pig LC inhalation > 17937ppm/4H (17937ppm) National Technical Information Service. Vol. OTS0556754,
human TClO inhalation 1000ppm/6M (1000ppm) BEHAVIORAL: "HALLUCINATIONS, DISTORTED PERCEPTIONS" "U.S. Bureau of Mines Report of Investigation No. 2979," Patty, F.A., and W.P. Yant, 1929 Vol. 2979, Pg. -, 1929.
mouse LClO inhalation 59gm/m3/41M (59000mg/m3) BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD Biochemische Zeitschrift. Vol. 115, Pg. 235, 1921.
mouse LD50 intravenous 222mg/kg (222mg/kg) Journal of Pharmaceutical Sciences. Vol. 67, Pg. 566, 1978.
Link to PubMed
rat LC50 inhalation 103gm/m3/4H (103000mg/m3) Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 32(10), Pg. 23, 1988.

N-BUTANE: *TOXICITY:

typ. dose mode specie amount units other

LC50 ihl rat 658 gm/m3/4H

LC50 ihl mus 680 gm/m3/2H

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION:

THR: Mildly toxic via inhalation. Causes drowsiness. An asphyxiant.

*CARCINOGENICITY: Not available

*MUTATION DATA:

test lowest dose | test lowest dose

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Not available |

*TERATOGENICITY: Not available

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89)

Final Limit: PEL-TWA 800 ppm [015,545,610]

ACGIH: TLV-TWA 800 ppm [015,415,610]

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): 1

Flammability (F): 4

Reactivity (R): 0

H1: Materials only slightly hazardous to health (see NFPA for details).

F4: Very flammable gases or very volatile flammable liquids (see NFPA for details).

R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

*OTHER TOXICITY DATA:

Standards and Regulations: DOT-IMO: Flammable gas; Label: Flammable Gas

Status: EPA TSCA Chemical Inventory, 1986

EPA TSCA Test Submission (TSCATS) Data Base, September 1989

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides: From NIH:

mouse LD50 intraperitoneal 200mg/kg (200 mg/kg) U.S. Army, Environmental Hygiene Agency Reports. Vol. 5177T7-66/1967,

mouse LD50 oral 919mg/kg (919 mg/kg) U.S. Army, Environmental Hygiene Agency Reports. Vol. 5177T7-66/1967,

rat LD50 intraperitoneal 100mg/kg (100 mg/kg) U.S. Army, Environmental Hygiene Agency Reports. Vol. 5177T7-66/1967,

rat LD50 oral 426mg/kg (426 mg/kg) U.S. Army, Environmental Hygiene Agency Reports. Vol.

SECTION 12: Ecological information

Toxicity

ECOTOXICOLOGICAL INFORMATION: Not Available ENVIRONMENTAL DATA: No known significant effects or critical hazards

ECOTOXICOLOGICAL INFORMATION: Not Available

Persistence and degradability

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides: Readily biodegradable per Lonza study and OECD 302a . http://dissemination.echa.europa.eu/Biocides/ActiveSubstances/0063-08/Data_009.pdf

SECTION 13: Disposal considerations

Disposal methods

Product disposal

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

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SECTION 14: Transport information

14.1	UN Number	None
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

Canadian Domestic Substances List (DSL)

Canadian Domestic Substances List (DSL)

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.

16.2 Preparation information

Prepared by: C. Gourley