



GAP PROFESSIONAL PRODUCTS

Safety Data Sheet GAP Power Steering System Cleaner

SECTION 1: Identification

1.1 GHS Product identifier

Product name	GAP Power Steering System Cleaner
Product number	60042
Brand	GAP Professional Products

1.3 Recommended use of the chemical and restrictions on use

Cleaner for Power Steering systems
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

- Serious eye damage/eye irritation, Cat. 2B
- Skin corrosion/irritation, Cat. 2
- Skin sensitizer, Cat. 1
- Carcinogenicity, Cat. 1B

2.2 GHS label elements, including precautionary statements

Safety Data Sheet

GAP Power Steering System Cleaner

Pictograms



1. Exclamation mark; 2. Health hazard

Signal word

Danger

Hazard statement(s)

H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H320 Causes eye irritation
 H350 May cause cancer [route]

Precautionary statement(s)

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 Wash ... thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water/...
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P321 Specific treatment (see ... on this label).
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 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
Distillates (petroleum), hydrotreated light paraffinic, if they contain > 3 % w/w DMSO extract (CAS no.: 64742-55-8; EC no.: 265-158-7; Index no.: 649-468-00-3)	60 - 100 % (weight)
CLASSIFICATIONS: Carcinogenicity, Cat. 1B. HAZARDS: H350 - May cause cancer [route].	
Heavy aromatic naphtha (CAS no.: 101631-19-0; EC no.: 309-944-0; Index no.: 649-434-00-8)	1 - 5 % (weight)
CLASSIFICATIONS: Aspiration hazard, Cat. 1. HAZARDS: H304 - May be fatal if swallowed and enters airways.	
METHYL ETHYL KETONE (CAS no.: 78-93-3; EC no.: 201-159-0; Index no.: 606-002-00-3)	< 1 % (weight)
CLASSIFICATIONS: Flammable liquids, Cat. 2; Specific target organ toxicity following single exposure, Cat. 3; Serious eye damage/eye irritation, Cat. 2. HAZARDS: H225 - Highly flammable liquid and vapor; H319 - Causes serious eye irritation; H336 - May cause drowsiness or dizziness.	

Safety Data Sheet
GAP Power Steering 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

Mild tissue inflammation, rash, nausea.

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

Treat symptomatically.

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.

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

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

Safety Data Sheet

GAP Power Steering System Cleaner

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. METHYL ETHYL KETONE (CAS: 78-93-3)

PEL (Inhalation): 200 ppm (OSHA)

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

PEL (Inhalation): 590 mg/m³ (OSHA)

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

PEL (Inhalation): 200 ppm, (ST) 300 ppm (Cal/OSHA)

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

REL (Inhalation): 200 ppm, (ST) 300 ppm (NIOSH)

OSHA Annotated Table Z-1, 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)

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.

Safety Data Sheet
GAP Power Steering System Cleaner

SECTION 9: Physical and chemical properties

Appearance, such as physical state and colour	Clear slightly hazy liquid
Odour	Characteristic
Odour threshold	Not determined
pH	N/A oil based
Melting point and freezing point	Not Available
Initial boiling point and boiling range	Not Determined
Flash point	60 - 92°C
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	Not Determined
Relative density	0.8-0.9 kg/l 60C
Solubility	Insoluble
Partition coefficient — n-octanol/water	Log KOW > 4 (mineral oil data)
Auto-ignition temperature	Not Determined
Decomposition temperature	Not Available
Viscosity	<14.5 cSt 40C
Additional properties	
Physical state	Liquid
Colour	Amber
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.

10.5 Incompatible materials

Strong oxidizing agents

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

Safety Data Sheet

GAP Power Steering System Cleaner

Acute toxicity

ORAL

HYDROCRACKED PARAFFINIC MINERAL OIL: LD50 5001 mg/Kg;

AROMATIC HYDROCARBON: Non Hazardous;

TRADE SECRET COMPONENT: LD50 1,600 mg/Kg

SKIN

HYDROCRACKED PARAFFINIC MINERAL OIL: LD50 5001 mg/Kg;

AROMATIC HYDROCARBON: Non Hazardous;

TRADE SECRET COMPONENT: LD50 2,000 mg/Kg

INHALATION

HYDROCRACKED PARAFFINIC MINERAL OIL: Non Hazardous;

AROMATIC HYDROCARBON: Non Hazardous;

TRADE SECRET COMPONENT: LD50 50 ppm mg/Kg

Skin corrosion/irritation

HYDROCRACKED PARAFFINIC MINERAL OIL: Non Irritating;

AROMATIC HYDROCARBON: Non Irritating;

TRADE SECRET COMPONENT: Non Irritating

Serious eye damage/irritation

HYDROCRACKED PARAFFINIC MINERAL OIL: Non-Categorized, Suspected Eye Irritant;

AROMATIC HYDROCARBON: Non-Categorized, Suspected Eye Irritant;

TRADE SECRET COMPONENT: Cat 2A Serious Irritation

Respiratory or skin sensitization

HYDROCRACKED PARAFFINIC MINERAL OIL: Non Sensitizing;

AROMATIC HYDROCARBON: No Data Available;

TRADE SECRET COMPONENT: No Data Available

Germ cell mutagenicity

HYDROCRACKED PARAFFINIC MINERAL OIL: No Data Available;

AROMATIC HYDROCARBON: No Data Available;

TRADE SECRET COMPONENT: No Data Available

Carcinogenicity

HYDROCRACKED PARAFFINIC MINERAL OIL: No Hazard;

AROMATIC HYDROCARBON: Cat 1B Presumed Human Effects;

TRADE SECRET COMPONENT: No Hazard

Reproductive toxicity

HYDROCRACKED PARAFFINIC MINERAL OIL: No Data Available;

AROMATIC HYDROCARBON: No Data Available;

TRADE SECRET COMPONENT: No Hazard

Specific target organ toxicity (STOT) - single exposure

HYDROCRACKED PARAFFINIC MINERAL OIL: No Data Available;

AROMATIC HYDROCARBON: Cat 3 Transient Toxicant - CNS, Liver, Kidneys;

TRADE SECRET COMPONENT: Cat 3 Transient Toxicant - CNS, Liver, Kidneys

Specific target organ toxicity (STOT) - repeated exposure

HYDROCRACKED PARAFFINIC MINERAL OIL: No Data Available;

Safety Data Sheet

GAP Power Steering System Cleaner

AROMATIC HYDROCARBON: No Data Available;
TRADE SECRET COMPONENT: No Hazard

Aspiration hazard

HYDROCRACKED PARAFFINIC MINERAL OIL: Cat 1 Aspiration Hazard;
AROMATIC HYDROCARBON: Cat 1 Aspiration Hazard;
TRADE SECRET COMPONENT: No Hazard

Additional information

METHYL ETHYL KETONE: *TOXICITY:
typ. dose mode specie amount units other
TCLo ihl hmn 100 ppm/5M
LC50 ihl mus 40 gm/m3/2H
LC50 ihl rat 23500 mg/m3/8H
LDLo ipr gpg 2000 mg/kg
LD50 ipr mus 616 mg/kg
LD50 orl mus 4050 mg/kg
LD50 orl rat 2737 mg/kg
LD50 skn rbt 6480 mg/kg
LC50 ihl mam 38 gm/m3
LD50 ipr rat 607 mg/kg

*AQTX/TLM96: over 1000 ppm

*SAX TOXICITY EVALUATION:

THR: Moderately toxic by ingestion, skin contact and intraperitoneal routes.
Human systemic effects by inhalation. An experimental teratogen.
Experimental reproductive effects. A strong irritant. Human eye irritation @ 350 ppm. Affects peripheral nervous system and central nervous system.

*CARCINOGENICITY: Not available

*MUTATION DATA:

test lowest dose	test lowest dose
sln-smc 33800 ppm |

*TERATOGENICITY:

Reproductive Effects Data:
TCLo: ihl-rat 3000 ppm/7H (6-15D preg)
TCLo: ihl-rat 1000 ppm/7H (6-15D preg)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z
Transitional Limit: PEL-TWA 200 ppm [610]
Final Limit: PEL-TWA 200 ppm; STEL 300 ppm [610]
ACGIH: TLV-TWA 200 ppm; STEL 300 ppm [015,415,421,610]
NIOSH Criteria Document: Recommended Exposure Limit to this compound-air:
TWA 200 ppm [610]
NFPA Hazard Rating: Health (H): 1
Flammability (F): 3
Reactivity (R): 0

Safety Data Sheet

GAP Power Steering System Cleaner

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

F3: Materials which can be ignited under almost all normal temperature conditions (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:

Skin and Eye Irritation Data:

eye-hmn 350 ppm

skn-rbt 500 mg/24H MOD

skn-rbt 402 mg/24H MLD

skn-rbt 13780 ug/24H open MLD

eye-rbt 80 mg

Review: Toxicology Review

Standards and Regulations: DOT-Hazard: Flammable liquid; Label: Flammable liquid

Status: EPA Genetox Program 1988, Inconclusive: B subtilis rec assay

EPA TSCA Chemical Inventory, 1986

EPA TSCA 8(a) Preliminary Assessment Information, Final Rule

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

NIOSH Analytical Methods: see 2-Butanone, 2500

NIOSH Analytical Methods: see 2-Butanone, Ethanol, and Toluene in blood, 8002

Meets criteria for proposed OSHA Medical Records Rule

SECTION 12: Ecological information

Toxicity

ENVIRONMENTAL DATA: No known significant effects or critical hazards

ECOTOXICOLOGICAL INFORMATION: Not Available

Persistence and degradability

Hydrocarbon mineral oils, and non-petroleum oils, are inherently biodegradable and are not persistent. OECD 301 values range from 50% to 95% in 28 days.

Bioaccumulative potential

Hydrocarbon mineral oils, and non-petroleum oils, are inherently biodegradable and have low bioaccumulation potential. Specific information on components is shown below.

Mobility in soil

Mineral oils have been shown to adhere strongly to soil. Mobility is expected to be low.

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

Safety Data Sheet

GAP Power Steering System Cleaner

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)

Massachusetts Right To Know Components

Chemical name: Methyl ethyl ketone

CAS number: 78-93-3

New Jersey Right To Know Components

Common name: METHYL ETHYL KETONE

CAS number: 78-93-3

Pennsylvania Right To Know Components

Chemical name: 2-Butanone

CAS number: 78-93-3

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 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.

Safety Data Sheet
GAP Power Steering System Cleaner

16.2 Preparation information
Prepared by Craig Gourley