

Safety Data Sheet

according to WHMIS

GYEON Q2M InteriorDetailer

Revision date: 06.05.2024

Product code: GM0032_CA

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1. Identification

Product identifier

GYEON Q2M InteriorDetailer

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Vehicle cleaning product - designed to remove organic contaminations from all vehicle surfaces. Enthusiasts and professional use (End consumer)

Uses advised against

All uses other than the identified

Details of the supplier of the safety data sheet

Company name: CARZILLA
 Street: Unit 146 - 239 Mayland Place NE,
 Place: CDN-AB T2E7Z8 Calgary
 Telephone: +1 (877) 805-9198
 Contact person: Chris Lee
 Internet: info@carzilla.ca

Emergency telephone number: +1 (877) 805-9198

2. Hazard identification

Classification of the substance or mixture

WHMIS 2015

Flammable liquids: Flam. Liq. 3
 Serious eye damage/eye irritation: Eye Irrit. 2
 Respiratory or skin sensitization: Skin Sens. 1

Label elements

WHMIS 2015

Signal word: Warning

Pictograms:



Hazard statements

Flammable liquid and vapour.
 May cause an allergic skin reaction.
 Causes serious eye irritation.

Precautionary statements

If medical advice is needed, have product container or label at hand.
 Keep out of reach of children.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Wear protective gloves and eye protection/face protection.
 Store in a well-ventilated place. Keep cool.
 Dispose of contents/container to local/regional/national/international regulations.

Other hazards

In use, may form flammable/explosive vapour-air mixture.
 The components in this formulation do not meet the criteria for classification as PBT or vPvB.

3. Composition/information on ingredients

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Mixtures

Relevant ingredients

| CAS No | Chemical name | Quantity |
|-----------|---|----------------|
| 64-17-5 | ethanol; ethyl alcohol | 45 - < 70% (*) |
| 5989-27-5 | (R)-p-mentha-1,8-diene; d-limonene (LIMONENE) | 0.1 - < 1% (*) |

(*) The actual concentration is withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

First aider: Pay attention to self-protection!

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

Most important symptoms and effects, whether acute or delayed

Causes serious eye irritation.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. Alcohol resistant foam.
In case of major fire and large quantities: Atomized water.

Unsuitable extinguishing media

High power water jet.

Specific hazards arising from the hazardous product

Can be released in case of fire: Carbon monoxide., Carbon dioxide (CO₂).

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures

General advice

See protective measures under point 7 and 8.

For non-emergency personnel

Remove persons to safety. Remove all sources of ignition. Ventilate affected area.

Wear personal protection equipment. (See section 8.)

For emergency responders

No special measures are necessary.

Environmental precautions

Do not allow to enter into surface water or drains. Danger of explosion! Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaust at critical locations.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing and wash it before reuse.

Further information on handling

General protection and hygiene measures: refer to chapter 8

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

Ensure adequate ventilation of the storage area.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases.

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Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
Protect against: UV-radiation/sunlight. heat. Humidity frost.
storage temperature: 15-25°C

8. Exposure controls/Personal protection

Control parameters

Exposure limits (ACGIH)

| CAS No | Chemical name | ppm | mg/m ³ | F/ml | Category | Origin |
|-----------|---------------------------------------|------|-------------------|------|---------------|------------|
| 5392-40-5 | Citral (inhalable fraction and vapor) | 5 | | | TWA (8 h) | ACGIH-2023 |
| 64-17-5 | Ethanol | 1000 | | | STEL (15 min) | ACGIH-2023 |

Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). Standards: CSA Z94.3

Hand protection

When selecting skin protection, please refer to CCOHS recommendations on Personal Protective Equipment.

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material: Butyl rubber.

Thickness of the glove material: 0,5 mm

Breakthrough time >= 480 min. Penetration time (maximum wearing period): ~ 120 min. (estimated)

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves should satisfy the specifications of standards like ISO 374.

Skin protection

Suitable protective clothing: Lab apron.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Suitable respiratory protective equipment: Half-mask with filter EN 149 or 29 CFR 1910.134 or regional standards like Z94.4.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

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9. Physical and chemical properties

Information on basic physical and chemical properties

| | | |
|---|--------|------------------------------------|
| Physical state: | liquid | |
| Colour: | blue | |
| Odour: | Squash | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | 82 °C |
| Lower explosive limits: | | not determined |
| Upper explosive limits: | | not determined |
| Flash point: | | 25 °C |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not determined |
| pH-Value: | | 8 |
| Viscosity / kinematic: | | not determined |
| Water solubility: | | not determined |
| Solubility in other solvents | | not determined |
| Partition coefficient n-octanol/water: | | SECTION 12: Ecological information |
| Vapour pressure: | | not determined |
| Density: | | not determined |
| Relative vapour density: | | not determined |

Other information

Information with regard to physical hazard classes

| | |
|---------------------------|-------------------|
| Explosive properties | |
| none | |
| Sustaining combustion: | No data available |
| Self-ignition temperature | |
| Gas: | not determined |
| Oxidizing properties | |
| none | |

Other safety characteristics

| | |
|--------------------------|----------------|
| Evaporation rate: | not determined |
| Solvent separation test: | not determined |
| Solvent content: | not determined |
| Solid content: | not determined |
| Sublimation point: | not determined |
| Softening point: | not determined |
| Pour point: | not determined |
| Viscosity / dynamic: | not determined |
| Flow time: | not determined |

10. Stability and reactivity

Reactivity

No information available.

Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions

Refer to chapter 10.5.

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Conditions to avoid

Keep away from heat. Danger of explosion!
In use may form flammable/explosive vapour-air mixture.
Heating causes rise in pressure with risk of bursting.

Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

Hazardous decomposition products

Can be released in case of fire: Carbon monoxide, Carbon dioxide (CO₂).

11. Toxicological information

Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|-----------|---|---------------|---------|--------|-------------------------------------|
| | Route of exposure | Dose | Species | Source | Method |
| 64-17-5 | ethanol; ethyl alcohol | | | | |
| | oral | LD50 mg/kg | 10470 | Rat | REACH Dossier OECD Guideline 401 |
| | inhalation (4 h) vapour | LC50 mg/l | 124,7 | Rat | REACH Dossier OECD Guideline 403 |
| 5989-27-5 | (R)-p-mentha-1,8-diene; d-limonene (LIMONENE) | | | | |
| | oral | LD50 mg/kg | > 2000 | Rat | REACH Dossier OECD Guideline 423 |
| | dermal | LD50 mg/kg | > 5000 | | REACH Dossier |

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitizing effects

May cause an allergic skin reaction. ((R)-p-mentha-1,8-diene; d-limonene (LIMONENE); citral)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

Ethanol:

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist. Reproductive toxicity: Exposure time: 18 weeks Species: CD-1 Mouse. Method: OECD Guideline 416

Result: NOAEL = 20700 mg/kg/day Developmental toxicity/teratogenicity: Exposure time: 19d Species: Sprague-Dawley Rat. Method: OECD Guideline 414 Result: NOAEL = 16000 ppm (maternal toxicity) Result: NOAEL >= 20000 ppm (teratogenicity) Literature information: REACH Dossier

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

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Ethanol:

Subchronic oral toxicity:

Exposure time: 90d; Species: Sprague-Dawley Rat.

Method: OECD Guideline 408; Result: NOAEL = 1280 mg/kg; Literature information: REACH Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Ingestion: May be harmful if swallowed. Inhalation: May be harmful if inhaled. Skin contact: Can cause irritation.

Eye contact: Can cause irritation.

Specific effects in experiment on an animal

No data available.

Name of toxicologically synergistic products

No data available

12. Ecological information

Ecotoxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No indication of bioaccumulation potential.

Mobility in soil

No data available.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

14. Transport information

Canadian TDG

| | |
|------------------------------|------------------------|
| <u>UN number:</u> | UN 1170 |
| <u>Proper shipping name:</u> | Ethyl alcohol solution |
| <u>Hazard classes:</u> | 3 |
| <u>Packing group:</u> | III |
| Hazard label: | 3 |

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Limited quantity: 5L



Marine transport (IMDG)

UN number or ID number: UN 1170
United Nations proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport hazard class(es): 3
Packing group: III
Hazard label: 3



Marine pollutant: NO
Special Provisions: 144, 223
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 1170
United Nations proper shipping name: ETHANOL SOLUTION
Transport hazard class(es): 3
Packing group: III
Hazard label: 3



Special Provisions: A3 A58 A180
Limited quantity Passenger: 10 L
Passenger LQ: Y344
Excepted quantity: E1
IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

15. Regulatory information

Canadian regulations

DSL/NDSL inventory status

Listed:
 ethanol; ethyl alcohol (CAS: 64-17-5)
 (R)-p-mentha-1,8-diene; d-limonene (LIMONENE) (CAS: 5989-27-5)

National Pollutant Release Inventory (NPRI)

ethanol; ethyl alcohol (CAS: 64-17-5):
 NPRI Part (threshold category): 5 (Reporting threshold: 1 tonne air release, VOC)

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(R)-p-mentha-1,8-diene; d-limonene (LIMONENE) (CAS: 5989-27-5):
NPRI Part (threshold category): 5 (Reporting threshold: 1 tonne air release, VOC)

WHMIS classification

No data available

Provincial regulations

No data available

Additional information

This mixture is classified as hazardous in accordance with WHMIS 2015.

16. Other information

Changes

- Rev. 1.0; 18.05.2020, Initial release
- Rev. 2.0; 25.11.2020, Revision Changes in section: 2-16
- Rev. 2.1; 11.02.2021, Revision
- Rev. 3.0; 06.01.2023, Revision Changes in section: 2-16

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Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists
ASTM: American Society for Testing and Materials.
ATE: acute toxicity estimate
BCF: Bio concentration factor
CAS: Chemical Abstracts Service
d: days
DSL: Domestic Substance List; LIS: La liste intérieure des substances
EC50: Half maximal effective concentration
EN: European Norm
ECHA: European Chemicals Agency
EPA: Environmental Protection Agency
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
h: hours
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IBC: Intermediate Bulk Container
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
MARPOL: marine pollution
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NTP: National Toxicology Program
N/A: not applicable
NDSL: Non-Domestic Substance List
UN: United Nations
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PBT: Persistent bioaccumulative toxic
RTECS: Registry of Toxic Effects of Chemical Substances
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
SIMDUT: Système d'information sur les matières dangereuses utilisées au travail
STEL: short-term exposure limits
TDG: Transportation of Dangerous Goods
TWA: time weighted average
TWAEV: TIME-WEIGHTED AVERAGE EXPOSURE VALUE
VOC: Volatile Organic Compounds
WHMIS: Workplace Hazardous Materials Information System

Further Information

Classification according WHMIS 2015 (GHS): - Classification procedure:
Health hazards: Calculation method.
Environmental hazards: Calculation method.
Physical hazards: On basis of test data and / or calculated. and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of

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processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)