



# Aqua-Kleen PGC

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Revision date: 23 Apr 2024

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : Aqua-Kleen PGC  
Product form : Mixture  
Product group : Trade product

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Water-based Cleaner, non-flammable, Flash Point not required.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Uni-ram Corporation  
381 Bentley St  
Markham ON L3R 9T2 +1-905-477-5911

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

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

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R36

Full text of R-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labeling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols



Xi - Irritant

R-phrases

: R36 - Irritating to eyes

S-phrases

: (S2) - (Keep out of reach of children)  
S28 - After contact with skin, wash immediately with plenty of water  
S37/39 - Wear suitable gloves and eye/face protection  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

##### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazardous ingredients

: Boric acid, disodium salt, pentahydrate, Diethylene glycol monobutylether

Hazard statements (CLP)

: H319 - Causes serious eye irritation

Precautionary statements (CLP)

: P264 - Wash hands, forearms and face thoroughly after handling  
P280 - Wear eye protection, protective gloves  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention

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### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name                                                                                                             | Product identifier                                                     | %                               | Classification according to Directive 67/548/EEC |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------|--------------------------------------------------|
| Diethylene glycol monobutyl ether                                                                                | (CAS No) 112-34-5<br>(EC no) 203-961-6<br>(EC index no) 603-096-00-8   | 15 - 40                         | Xi; R36                                          |
| Boric acid, disodium salt, pentahydrate<br>substance listed as REACH Candidate (Disodium tetraborate, anhydrous) | (CAS No) 12179-04-3<br>(EC no) 215-540-4<br>(EC index no) 005-011-02-9 | 1 - 5                           | Repr.Cat.2; R60<br>Repr.Cat.2; R61<br>Xi; R41    |
| Name                                                                                                             | Product identifier                                                     | Specific concentration limits   |                                                  |
| Boric acid, disodium salt, pentahydrate                                                                          | (CAS No) 12179-04-3<br>(EC no) 215-540-4<br>(EC index no) 005-011-02-9 | (C >= 6.5) Repr. Cat. 2; R60-61 |                                                  |
| Name                                                                                                             | Product identifier                                                     | %                               | Classification (EC) No. 1272/2008 [CLP]          |
| Diethylene glycol monobutyl ether                                                                                | (CAS No) 112-34-5<br>(EC no) 203-961-6<br>(EC index no) 603-096-00-8   | 15 - 40                         | Eye Irrit. 2, H319                               |
| Boric acid, disodium salt, pentahydrate<br>substance listed as REACH Candidate (Disodium tetraborate, anhydrous) | (CAS No) 12179-04-3<br>(EC no) 215-540-4<br>(EC index no) 005-011-02-9 | 1 - 5                           | Eye Dam. 1, H318<br>Repr. 1B, H360               |
| Name                                                                                                             | Product identifier                                                     | Specific concentration limits   |                                                  |
| Boric acid, disodium salt, pentahydrate                                                                          | (CAS No) 12179-04-3<br>(EC no) 215-540-4<br>(EC index no) 005-011-02-9 | (C >= 6.5) Repr. 1B, H360FD     |                                                  |

Full text of R- and H- phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).                               |
| First-aid measures after inhalation   | : Remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. |
| First-aid measures after skin contact | : IF ON SKIN (or clothing), remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, call a physician.    |
| First-aid measures after eye contact  | : IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Get medical advice/attention.                  |
| First-aid measures after ingestion    | : IF SWALLOWED: Rinse mouth, Do NOT induce vomiting, Call a POISON CENTER/doctor/physician if you feel unwell.                                                  |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                      |                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------|
| Symptoms/injuries                    | : Causes serious eye irritation.                                                                |
| Symptoms/injuries after inhalation   | : May cause respiratory irritation.                                                             |
| Symptoms/injuries after skin contact | : May cause skin irritation.                                                                    |
| Symptoms/injuries after eye contact  | : Causes serious eye irritation.                                                                |
| Symptoms/injuries after ingestion    | : May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. |
| Chronic symptoms                     | : No data available.                                                                            |

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                        |
|--------------------------------|--------------------------------------------------------|
| Suitable extinguishing media   | : Foam. Carbon dioxide. Dry powder. Water spray. Sand. |
| Unsuitable extinguishing media | : None known.                                          |

### 5.2. Special hazards arising from the substance or mixture

|                  |                             |
|------------------|-----------------------------|
| Fire hazard      | : Product is not flammable. |
| Explosion hazard | : Product is not explosive. |

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|                                                  |                                                                                                                                                                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                       | : None known.                                                                                                                                                                                                                             |
| Hazardous decomposition products in case of fire | : Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon oxides and other organic compounds will be evolved when this material undergoes thermal degradation. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary measures fire    | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                                                     |
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.                                                                      |

## SECTION 6: Accidental release measures

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

|                  |                                                                                                                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8). |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Protective equipment | : Wear Protective equipment as described in Section 8. |
| Emergency procedures | : Evacuate unnecessary personnel.                      |

#### 6.1.2. For emergency responders

|                      |                                                                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency. |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.                                                                                                                                                         |
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Sweep or shovel spills into appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. |

### 6.4. Reference to other sections

See Sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Do not breathe mist, vapors or spray. Do not handle until all safety precautions have been read and understood. Keep away from sources of ignition - No smoking. Provide appropriate exhaust ventilation at places of dust forming. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                    |                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------|
| Storage conditions | : Keep only in the original container in a cool, well ventilated place away from : heat sources. |
|--------------------|--------------------------------------------------------------------------------------------------|

### 7.3. Specific end use(s)

Cleaner.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Diethylene glycol monobutyl ether (112-34-5)         |                                 |                                                                                         |
|------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------|
| USA - ACGIH                                          | ACGIH TWA (ppm)                 | 10 ppm (inhalable fraction and vapor)                                                   |
| Boric acid, disodium salt, pentahydrate (12179-04-3) |                                 |                                                                                         |
| USA - ACGIH                                          | ACGIH TWA (mg/m <sup>3</sup> )  | 2 mg/m <sup>3</sup> TWA (inhalable fraction, listed under Borate compounds, inorganic)  |
| USA - ACGIH                                          | ACGIH STEL (mg/m <sup>3</sup> ) | 6 mg/m <sup>3</sup> STEL (inhalable fraction, listed under Borate compounds, inorganic) |

### 8.2. Exposure controls

|                                  |                                                              |
|----------------------------------|--------------------------------------------------------------|
| Appropriate engineering controls | : Ensure adequate ventilation, especially in confined areas. |
|----------------------------------|--------------------------------------------------------------|

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Personal protective equipment

: Gloves. Protective goggles.



Hand protection

: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye protection

: Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection

: Wear suitable protective clothing. Wear long sleeves.

Respiratory protection

: Where excessive vapor, mist, or dust may result, use NIOSH approved respiratory protection equipment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                             |                      |
|---------------------------------------------|----------------------|
| Physical state                              | : Liquid             |
| Color                                       | : No data available  |
| Odor                                        | : No data available  |
| Odor threshold                              | : No data available  |
| pH                                          | : No data available  |
| Relative evaporation rate (butyl acetate=1) | : No data available  |
| Melting point                               | : No data available  |
| Freezing point                              | : No data available  |
| Boiling point                               | : No data available  |
| Flash point                                 | : No data available  |
| Auto-ignition temperature                   | : No data available  |
| Decomposition temperature                   | : No data available  |
| Flammability (solid, gas)                   | : No data available  |
| Vapor pressure                              | : No data available  |
| Relative vapor density at 20 °C             | : No data available  |
| Relative density                            | : No data available  |
| Solubility                                  | : Water: Appreciable |
| Log Pow                                     | : No data available  |
| Viscosity, kinematic                        | : No data available  |
| Viscosity, dynamic                          | : No data available  |
| Explosive properties                        | : No data available  |
| Oxidizing properties                        | : No data available  |
| Explosion limits                            | : No data available  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Heat. Open flame. Distillation to drying. Moisture.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>).

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Diethylene glycol monobutyl ether (112-34-5)

LD50 oral rat 3384 mg/kg

LD50 dermal rabbit 2700 mg/kg

Irritation : Irritating to eyes.

Corrosivity : Not classified

Sensitization : Not classified

Repeated dose toxicity : Not classified

Carcinogenicity : Not classified

Mutagenicity : Not classified

Toxicity for reproduction : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : No information available.

#### 12.2. Persistence and degradability

##### Aquaclean PGC

Persistence and degradability No information available.

#### 12.3. Bioaccumulative potential

##### Aquaclean PGC

Bioaccumulative potential No information available.

#### 12.4. Mobility in soil

##### Aquaclean PGC

Ecology - soil No information available.

#### 12.5. Results of PBT and vPvB assessment

##### Component

(12179-04-3) This substance/mixture does not meet the PBT criteria of REACH, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII

#### 12.6. Other adverse effects

Other adverse effects : No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not hazardous for transport

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : Not applicable

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### IMDG

Transport hazard class(es) (IMDG) : Not applicable

### IATA

Transport hazard class(es) (IATA) : Not applicable

### ADN

Transport hazard class(es) (ADN) : Not applicable

### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

#### 14.6.2. Transport by sea

#### 14.6.3. Air transport

#### 14.6.4. Inland waterway transport

Not subjected to ADN : No

#### 14.6.5. Rail transport

Carriage prohibited (RID) : No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains REACH Candidate List substance(s): Disodium tetraborate, anhydrous (EC 215-540-4, CAS 12179-04-3)

#### 15.1.2. National regulations

All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list.

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Indication of changes:

Revision 1.0: New SDS Created.

Other information : Author: EKW.

Full text of R-, H- and EUH-phrases:

|              |                                              |
|--------------|----------------------------------------------|
| Eye Dam. 1   | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| Repr. 1B     | Reproductive toxicity Category 1B            |
| H318         | Causes serious eye damage                    |
| H319         | Causes serious eye irritation                |
| H360         | May damage fertility or the unborn child     |

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|     |                                    |
|-----|------------------------------------|
| R36 | Irritating to eyes                 |
| R41 | Risk of serious damage to eyes     |
| R60 | May impair fertility               |
| R61 | May cause harm to the unborn child |
| Xi  | Irritant                           |

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*