



SAFETY DATA SHEET

This safety sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing date 28-jun-2018
Revision number 2

Revision date 28-Feb-2018

EGHS / English

Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Gel-clear Green
Chemical name Contains Benzalkonium chloride

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

Recommended use Slow release A/C/refrigeration condensate drain pan cleaner/treatment
Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Supplier name Gel-clear Ltd
Supplier address 145 Bolton Rd
Darwen
Lancs
BB3 1DF
Supplier phone number Phone: (44) (0)844 330 3643
Supplier email technical@gel-clear.co.uk

For further information, please contact.

1.4. Emergency telephone number

Emergency telephone No information available

Emergency telephone §45- (EC)1272/2008

Europe	112
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Section 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
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Acute toxicity - Dermal	Category 4 - (H312)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)

2.2. Label elements

Contains Benzalkonium chloride



Signal word

Danger

Hazard Statements

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

Precautionary Statements – EU (§28, 1272/2008)

P280 -Wear protective gloves/protective clothing/eye protection/face protection

P321 - Specific treatment (see supplemental first aid instructions on this label)

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

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 or doctor

Additional information

This product requires tactile warnings if supplied to the general public

This product requires child resistant fastenings if supplied to the general public

2.3. Other hazards

No information available

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS
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3.1. Substances

Not applicable

3.2. Mixtures

Chemical name	EC No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No.
Benzalkonium chloride	264-151-6	63449-41-2	16.1	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314) Aquatic Acute 1 (H400)	No data available

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

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required
Eye contact	Harmful
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated cloths and shoes. Get immediate medical advice/attention
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation

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

Symptoms	Burning sensation
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4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Don not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure
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Section 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Unsuitable extinguishing media	No information available

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

The product causes burn of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours

Hazardous combustion products

Carbon oxides

5.3 Advice for firefighters**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment

Section 6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak
Other Information	Refer to protective measures listed in Sections 7 and 8
For emergency responders	Use personal protection recommended in Section 8

6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains
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6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information
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Section 7. HANDLING AND STORAGE**7.1. Precautions for safe handling**

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse
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General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Store locked up. Protect from moisture. Store away from other materials
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7.3. Specific end use(s)

Risk management methods (RMM)	The information required is contained in this Safety Data Sheet
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Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
Derived No Effect Level (DNEL)	No information available
Predicted No Effect Concentration (PNEC)	No information available

8.2. Exposure controls

Personal protective equipment

Eye/face protection	Face protection shield
Hand protection	Wear suitable gloves. Impervious gloves
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron
Environmental exposure controls	No information available

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	White to light green
Color	No information available

Odor	Menthol	
Odor threshold	No information available	
<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	6 - 7	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability limit in air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Slowly soluble in water	None known
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Viscosity	Not applicable	None known

9.2. Other Information

Softening point	No information available
Molecular weight	No information available
VOC content (%)	No information available
Liquid density	Not applicable
Bulk density	1.2 g/cm ³
Particle size	Not applicable

Particle size distribution Not applicable

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under normal conditions

Explosion data

Sensitivity to mechanical impact None
None

Sensitivity to Static Discharge

None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing

Hazardous polymerization Hazardous polymerization does not occur

10.4. Conditions to avoid

Exposure to air or moisture over prolonged periods

10.5. Incompatible materials

Acids, bases, oxidizing agent

10.6. Hazardous decomposition products

Carbon oxides

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Product information

Inhalation

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract

Eye contact

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May be absorbed through the skin in harmful amounts. Harmful in contact with skin

Ingestion Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhoea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways

Information on toxicological effects

Symptoms Redness, Burning. May cause blindness. Coughing and/or wheezing

Numerical measures of toxicity product information

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 500.00 mg/kg
ATEmix (dermal) 1,100.00 mg/kg

Unknown acute toxicity

- 100 % of the mixture consists of ingredient(s) of unknown toxicity
- 83.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 83.9 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Benzalkonium chloride	-	=1420 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes burns

Serious eye damage/eye irritation	Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns
Respiratory or skin sensitization	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Aspiration hazard	No information available

Section 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity No information available

12.2. Persistence and degradability

Persistence and degradability No information available

12.3. Bioaccumulative potential

Bioaccumulation No information available

12.4. Mobility in soil

Mobility in soil No information available

12.5. Result of PBT and vPvB assessment

PBT and vPvB assessment No information available

12.6. Other adverse effects

Other adverse effect No information available

Section 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/ unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging No information available

Section 14. TRANSPORT INFORMATION
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<u>IMDG/IMO</u>	Not regulated
14.1 UN-No.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	N/A
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special provisions	None
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

<u>RID</u>	Not regulated
14.1 UN-No.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	None
14.6 Special provisions	

<u>ADR</u>	Not regulated
14.1 UN-No.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing group	Not applicable
14.5 Environmental hazard	None
14.6 Special provisions	

<u>IATA</u>	Not regulated
14.1 UN-No.	Not regulated
14.2 Proper shipping name	NON REGULATED
14.3 Hazard class	N/A
14.4 Packaging group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special provisions	None

Section 15. REGULATORY INFORMATION

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

National regulations

France
Occupational illnesses (R-463-3, France)

Chemical name	French RG name	Title

Benzalkonium chloride 63449-41-2	RG 65, RG 66	-
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European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent organic pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed
 H312 - Harmful in contact with skin
 H314 - Causes severe skin burns and eye damage
 H400 - Very toxic to aquatic life

Legend

SVHC: Substances of Very High Concern for Authorization:

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

Key literature references and sources for data

www.ChemADVISOR.com/

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This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet