SAFETY DATA SHEET

Bathroom Cleaner

UNICARE (CHEMICALS) LTD

1 Identification

Product Identifier:
Bathroom cleaner

Other means of identification:
Not available

Recommended use of the chemical and restriction on use:
For bathroom cleaning

Supplier's details:
Unicare (Chemicals) Ltd,
Aradhippou Industrial Area, 7101,
Larnaca-Cyprus, P.O Box 54088
Tel.: +357 24531766, +357 24533765
Fax: +357 24532111
Email: team@unicaregroup.com

Emergency phone number
1401

2 Hazard(s) identification

Classification of the substance or mixture
According to regulation (EC) No 1272/2008 [CLP]
Skin Corrosion / Irritation: Hazard Category 1
Serious Eye Damage / Irritation: Hazard Category 1

GHS Label Element

Signal Word:
Danger

Hazard Statements:

H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.

Precautionary Statement

P264: Wash your hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection**.**
P301 + **P330** + **P331**: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.

P304 + **P340**: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up.
P501: Dispose of contents/container to waste according to national / local regulations.

Other hazards which do not result in classification

Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

Mixture

Description	- **CAS Number** - **EINECS Number** - **Reach registration number**	Concentration (% w/w)	Note / Classification
Alcohols, C11-13-branched, ethoxylated (>2.5 moles EO)	- 68439-54-3 - 931-985-3 - N/A	2.5 – 3.0	Eye Dam. 1, H318; Acute Tox. 4 H302
Phosphoric acid	- 405161-39-9 - 676-971-5 - N/A	2.0 – 2.5	Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Irrit. 2, H319
Isopropyl alcohol	- 67-63-0 - 200-661-7 - N/A	3.5 – 4.5	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (Benzalkonium chloride)	- 68424-85-1 - 270-325-2 - N/A	0.5 - 1.0	Acute Tox. (oral) 4, H302; Acute Tox. (dermal) 4, H312; Skin corr. 1B, H314; Eye Dam. 1; H318; Aquatic acute 1, H400 (M=10); Aquatic chronic, H410 (M=1)

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

4 First-aid measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:
Immediately wash thoroughly with plenty of water, and consult a skin specialist.

On contact with eyes:
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms/effects, acute and delayed
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5 Fire-fighting measures

Extinguishing media

Flash Point & Method
None
Suitable Extinguishing Media
Pulverized water, foam, dry chemical & carbon dioxide

Specific hazards arising from the chemical
Carbon monoxide, carbon dioxide, phosphorus oxides, formaldehyde, as well as other toxic vapours and gases which are common to thermal degradation (in case of fire) of organic compounds.

Special protective actions for fire-fighters
Wear self-contained breathing apparatus and full protective gear.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Use personal protective clothing. Information regarding personal protective measures see, Section 8.

Environmental precautions
No special precautions required.

Methods and materials for containment and cleaning up
For residues: Pick up with suitable absorbent material.
Large Spillages: Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Avoid the spillage or runoff entering drains, sewers or water courses. Flush away spillage with plenty of water.
Dispose of absorbed material in accordance with regulations.
For large amounts: Dike spillage. Pump off product.

7 Handling and storage

Precautions for safe handling
No special measures necessary provided product is used correctly.

Protection against fire and explosion
No special precautions necessary.

Conditions for safe storage, including any incompatibilities
Suitable materials for containers: High density polyethylene (HDPE)
Further information on storage conditions: Keep container tightly closed and in a cool place.

Storage stability:
Storage temperature: 10 - 40 °C

The packed product is not damaged by low temperatures or by frost. Bulk must be protected from solidification.
Protect from temperatures above: 70 °C

Specific end use(s)
For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8 Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace: Isopropanol

Isopropanol (CAS:67-63-0)		
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	200 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	980 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	400 ppm

ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TWA: Time-Weighted Average concentration
STEL: Short Term Exposure Limit
PEL: Permissible Exposure Limit

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipment
Respiratory protection:
Respiratory protection in case of vapour/aerosol release. (Particle filter EN 143 P2 or FFP2)

Hand protection:
Chemical resistant protective gloves. (EN 374)
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):
e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other.
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures
Wearing of closed work clothing is required additionally to the stated personal protection equipment. No eating, drinking, smoking or tobacco use at the place of work.
Handle in accordance with good industrial hygiene and safety practice.

9 Physical and chemical properties

Physical and chemical properties

General Information

- **Appearance:**
  Form: Liquid
  Colour: Light green
- **Odour:** Characteristic (clean pine)
- **Odour threshold:** Not determined
- **pH-value:** 1.5 – 2.3
- **Specific gravity:** 0.985 – 0.995
- **Change in condition**
  Melting point/Melting range: Not determined
  Boiling point/Boiling range: Not determined
- **Flash point:** Not determined
- **Flammability (solid, gaseous):** Not applicable
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  Lower: Not determined.
  Upper: Not determined.
- **Vapour pressure at 20 °C:** Not determined
- **Density at 20 °C:** Not determined
- **Relative density:** Not determined
- **Solubility in / Miscibility with water:** Miscible
- **Partition coefficient (n-octanol/water):** Not determined
- **Viscosity (25 °C):**
  Dynamic: 35 – 200 CPS (spindle at 10 rpm)
  Kinematic: Not determined

10 Stability and reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability
No specific test data related to reactivity available for this product or its ingredients.
The product does not contain peroxides (or any other explosive chemicals).

Possibility of hazardous reactions
No hazardous reactions when stored and handled according to instructions.

Conditions to avoid
See SDS Section 7 - Handling and storage.

Incompatible materials
Substances to avoid:
Avoid contact with oxidising agents (e.g. nitric acid, peroxides and chromates). Strong bases and alkaline.

Hazardous decomposition products
No hazardous decomposition products if stored and handled as prescribed/indicated.
In case of fire: carbon dioxide, carbon monoxide

11 Toxicological information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Toxicological (health) effects

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

Skin corrosion/irritation: Assessment: Causes severe skin burns.

Serious eye damage/irritation: Assessment: Cause serious eye damage.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

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.

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.

Aspiration hazard: Assessment: No aspiration hazard expected.

Symptoms related to the physical, chemical and toxicological characteristics: Not available data.

Numerical measures of toxicity (such as acute toxicity estimates): Not available data.

Toxicological Data: Alcohols, C11-13-branched, ethoxylated (>2.5 moles EO) (CAS: 68439-54-3)

Acute oral toxicity:	LD_{50} Rat: > 300 - 2.000 mg/kg; Assessment: harmful if swallowed.
Acute dermal toxicity:	LD_{50} Rat: > 2.000 mg/kg; Assessment: the classification criteria are not met
Skin corrosion / irritation:	Rabbit: not irritating; Assessment: the classification criteria are not met
Serious eye damage/eye irritation:	Rabbit: highly irritating; Assessment: Causes serious eye damage.
Respiratory or skin Sensitisation:	Guinea pig: not sensitizing; Assessment: the classification criteria are not met.
Germ cell mutagenicity / Genotoxicity in vitro:	Ames test; Salmonella typhimurium; assessment: the classification criteria are not met.
Carcinogenicity:	No available data.
Reproductive toxicity:	No available data.
Teratogenicity:	No available data.
STOT - single exposure:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure:	No available data.
Aspiration hazard:	Not applicable.
Toxicological information:	No available data.

Toxicological Data: Isopropyl Alcohol (2-Propanol) (CAS: 67-63-0)

LD_{50} oral rat:

5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg body weight; Rat)

LD_{50} dermal rabbit:

12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)

LC_{50} inhalation rat (mg/l):

73 mg/l/4h (Rat)

ATE US (oral):

5045.000 mg/kg body weight

ATE US (dermal):

12870.000 mg/kg body weight

ATE US (vapours):

73.000 mg/l/4h

ATE US (dust, mist):

73.000 mg/l/4h

Toxicological Data: Benzalkonium chloride (CAS: 68424-85-1)

Acute toxicity LD50 Oral
Mouse - 150 mg/kg
Remarks: Behavioral: Somnolence (general depressed activity). Blood: Hemorrhage.

LD50 Dermal
Rat - 1.420 mg/kg
Remarks: Behavioral: Somnolence (general depressed activity). Blood: Hemorrhage

12 Ecological information

Toxicity:

Eco toxicity
No relevant information available.

Persistence and Degradability
No relevant information available.

Bioaccumulation
No relevant information available.

Mobility in soil
No relevant information available.

Other Adverse Effects
No data available.

Ecological Data: Alcohols, C11-13-branched, ethoxylated (>2.5 moles EO) (CAS: 68439-54-3)

Toxicity to fish :
EC50 > 1-10 mg/l (96 h; Cyprinus carpio; Flow-through system)

Toxicity to Daphnia:
EC50 > 1 - 10 mg/l (48 h; Daphnia magna)

Toxicity to invertebrates:
EC50 > 1 - 10 mg/l (72 h, Desmodesmus subspicatus)

Toxicity to microorganisms:
EC10 > 10.000 mg/l (Pseudomonas putida: ISO 10712)

Toxicity to aquatic plants:
NOEC: 100 mg/kg (Triticum aestivum, Lepidium sativum, Brassica alba)

Ecological Data: Isopropyl Alcohol (2-Propanol) (CAS: 67-63-0)

LC50 Fish 1:
4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)
EC50 Daphnia 1:
> 10000 mg/l (48 h; Daphnia magna)
LC50 Fish 2:
9640 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 2:
13299 mg/l (48 h; Daphnia magna)
Threshold Limit Algae1:
> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
Threshold Limit Algae 2:
1800 mg/l (72 h; Algae; Cell numbers)

Ecological Data: Benzalkonium chloride (CAS: 68424-85-1)

Toxicity to fish:

mortality LOEC - Oncorhynchus kisutch - 17,8 mg/l - 3,0 d

LC50 - Lepomis macrochirus - 0,31 mg/l - 96,0 h

mortality NOEC - Oncorhynchus kisutch - 10 mg/l - 3,0 d

13 Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

14 Transport information

UN Number: ADR/RID, IMDG, IATA: UN 3264
UN Proper Shipping Name: ADR/RID, IMDG, IATA: Corrosive liquids, acidic, inorganic (phosphoric acid, solution)
Transport hazard class(es): 8: Corrosive material
Packing group, if applicable: III
Environmental hazards: Not applicable.
Special precaution for user: Danger: Corrosive substances.
Transport in bulk according to Annex II of Marpol 73/78 and the IBCcode: Not applicable.

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I:** None of the ingredients is listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 Other information

Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No-Effect Concentration
VOC: Volatile Organic Compounds (USA, EU)
vPvB: very Persistent and very Bioaccumulative

H225: Highly flammable liquid and vapor.
H302: harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Flam. Liq. 2: Flammable Liquid; Hazard Category 2
Skin Corr.1B: Skin corrosion / irritation; Hazard Category 1B
Skin Irrit. 2: Skin corrosion / irritation; Hazard Category 2
Eye Dam. 1: Serious eye damage / eye irritation; Hazard Category 1
Eye Irrit. 2: Serious eye damage / eye irritation; Hazard Category 2
Acute Tox. (oral) 4: Oral acute toxicity; Hazard Category 4
Acute Tox. (dermal) 4: Dermal acute toxicity; Hazard Category 4
STOT SE 3: Specific target organ toxicity – single exposure; Hazard Category 3
Aquatic Acute 1: Hazardous to the aquatic environment; Acute Hazard Category 1
Aquatic Chronic 1: Long-term aquatic hazard; Hazard Category 1