KTV GROUP
QUALITY ON TIME

SelfCleaner

KTV Group SelfCleaner is used to clean surfaces without the use of high pressure

KTV Group SelfCleaner is used to wash surfaces clean, without the use of high pressure.
SelfCleaner is also used to prevent moisture and rot damage, and it removes algae, moss, bad smells, fungi and the like. It may also be used as a fungus and algae killer with application before surface treatment.

SelfCleaner can be used on all types of washable surfaces such as concrete, wood, painted surfaces, natural stone, cardboard, roof tiles, plastic, maintenance-free plates. Can also be used in the food industry.

The SelfCleaner method was developed by KTV Group, and has been used as the main method for keeping facades clean since 2015.

** On the last page of this document, you will find information about disinfection with KTV Group SelfCleaner. **

FOR SELF-CLEANING:
Apply KTV Group SelfCleaner on all surfaces with a mixing ratio of 1: 8.

Make sure you apply the entire surface.
The facade will clean itself in 1-3 months.

In case of large amounts of moss, high-pressure rinsing may be necessary after 1 month, and then new application.

WHEN PAINTING:
Apply KTV Group SelfCleaner with a mixing ratio of 1: 8 and let it work for 1 month before washing.
After washing, reapply on a dry surface and allow to dry before painting.

IN THE EVENT OF ODOR / MOISTURE DAMAGE:
Apply KTV Group SelfCleaner with a mixing ratio of 1: 5 and leave on. Repeat the same treatment after 1 month.

CONTENTS:
C12-C16 Alkylbenzyldimethylammonium chloride. pH 10

STORE FROST-FREE

SHELF LIFE:
24 months.

DATA SHEET
www.ktvgroup.no/datasheet

WARNING

- Causes severe burns to skin and eyes.
- Very toxic to aquatic life with long lasting effects.
- Keep out of reach of children.
- Wash hands thoroughly after use.
- Avoid release to the environment.
- Wear safety goggles, protective clothing, protective gloves.
- If swallowed: Rinse mouth. DO NOT induce vomiting.
- In case of skin contact (or hair): Remove contaminated clothing immediately. Rinse / shower the skin with water.
- By inhalation: Move person to fresh air area and keep comfortable for positioning which facilitates respiration.
- In case of contact with eyes: Rinse cautiously with water for several minutes. Remove any contact lenses if this can be easily done. Continue rinsing. Contact immediately a doctor / Poison Information Center.
- Keep locked up.
- Content / container is delivered to the collection point for hazardous waste and special waste.

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KTV GROUP
QUALITY ON TIME

SelfCleaner

KTV Group SelfCleaner is used to clean surfaces without the use of high pressure

Before and after picture

The picture below shows an example of cleaning with SelfCleaner. In this, SelfCleaner is applied with KTV Group Cleaning Drone 14 January and the afterimage was taken on 26 February the same year.

From application it takes 1-2 weeks until you see good visible results. SelfCleaner continues to work over 3 months. With this method, high pressure is not used, and thus the facades are not damaged.

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Safety Data Sheet KTV Group Self Cleaner

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : KTV Group Self Cleaner

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

Identified uses

Intended for the general public

Use of the substance/mixture : Growth, contaminant and green stain remover

Uses advised against

No supplementary information available

1.3. Details of the supplier of the safety data sheet

SurfaTech AS
Luramyrveien 69
4313 Sandnes —
Norway
T +47 51 59 51 00
post@surfatech.no — www.surfatech.no

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency telephone number
Norway	The Norwegian Poison Information Centre Directorate of Health and Social Affairs	P.O. Box 7000, St. Olavs Plass 0130 Oslo	112/ +47 22 59 13 00

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1B	H314
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

Full text of all classifications and hazard statements: see Section 16

2.2. Label elements

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

Pictograms (CLP) :

GHS05 GHS09

Signal words (CLP) :
Hazard

Hazardous components : C12-C16 alkyl benzyl dimethyl ammonium chloride

Hazard statements (CLP) : H314 — Causes severe skin burns and eye damage
H410 — Very toxic to aquatic life with long-lasting effects

Precautionary statements (CLP) : P102 — Keep out of the reach of children
P264 — Wash hands thoroughly after handling
P273 — Avoid release to the environment
P280 — Wear protective goggles, protective clothing, protective gloves
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 [or shower].

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 continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 — Immediately call a POISON CENTER or doctor/physician
P405 — Store locked up
P501 — Dispose of contents/container to hazardous and special waste collection point

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

This substance/mixture does not meet the PBT criteria of the REACH Regulation, Annex XIII

This substance/mixture does not meet the vPvB criteria of the REACH Regulation, Annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification of mixture in accordance with Regulation (EC) No 1272/2008 [CLP]
C12-C16 alkyl benzyl dimethyl ammonium chloride	(CAS No.) 68424-85-1 (EU No.) 270-325-2 (REACH No.) 01-2119965180-41	1-20	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

For full text of hazards statements, see under Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

FIRST AID in general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label, where possible).

FIRST AID after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

FIRST AID after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER or doctor/physician.

FIRST AID after eye contact : Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

FIRST AID after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician in case of discomfort.

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

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : Inhalation may cause irritation of the respiratory tract, coughing, breathing problems.

Symptoms/effects after skin contact : Repeated or prolonged contact with product may remove natural oils and cause dermatitis.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhoea.

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

No specific first aid measures are indicated.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water mist.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not classified as flammable in accordance with applicable regulations.

5.3. Advice for fire-fighters

Fire-fighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protection during fire-fighting : Do not enter fire area without proper personal protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General precautions : Avoid skin and eye contact. Do not breathe vapours/spray.

For non-emergency personnel

Emergency procedures : Evacuate area.

For emergency responders

Protective equipment : Equip clean-up and emergency crew with proper protection. For additional information, see Section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up spills with absorbent materials. Rinse off residue with lots of water.

6.4. Reference to other sections

Waste is treated in accordance with Section 13. For additional information, see Section 8: “Exposure controls/personal protection”.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Avoid skin and eye contact. Do not inhale vapours or mist.

Hygienic precautions : Do no eat, drink or smoke when using this product. Wash hands thoroughly after use. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store safely, out of the reach of children and not together with, or near, foods, feeds, drugs, etc. Store in a well-ventilated place. Keep container tightly closed. Protect against frost.

Incompatible materials : For incompatible materials, see Section 10.

7.3. Specific end use(s)

No additional data.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

No supplementary information available

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the workplace.

Personal protective equipment : Gloves. Protective goggles.

Hand protection : Gloves are recommended for prolonged use. Neoprene, nitrile, polyethylene or PVC. Layer thickness: 0.40 mm. Breakthrough time: >240 min. STANDARD EN 374

Eye protection : Protective goggles with tight-fitting side or face shield. STANDARD EN 166

Skin and body protection: Wear suitable protective clothing

Respiratory protection : Respiratory protection is not required under conditions of normal use. For work tasks generating gas/vapours, use: Gas filter B (acid gases, grey). Standard EN 149

Other information : Do not eat, drink or smoke when handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Colourless.

Odour : weak.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point	: ≈ 0 °C
Freezing point	: ≈ 0
Boiling point	: ≈ 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non-flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 1 g/m³
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Non-explosive.
Flammable properties	: Non-flammable.
Explosive limits	: No data available

9.2. Other information

Additional information : None available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No reactive groups. Thermal decomposition produces: Corrosive fumes.

10.2. Chemical stability

Stable under normal temperature and recommended conditions of use.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Avoid heat and direct sunlight.

10.5. Incompatible materials

None available.

10.6. Hazardous decomposition products

No hazardous decomposition products are formed under normal conditions of storage and use. Thermal decomposition produces: Corrosive fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : Ingestion may cause irritation of the gastrointestinal system, nausea, vomiting and diarrhoea

C12-C16 alkyl benzyl dimethyl ammonium chloride (68424-85-1)	
LD 50 oral rat	344 mg/kg
LD50 skin rabbit	3340 mg/kg

Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT — single exposure	: Not classified
STOT — repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology — general : Very toxic to aquatic life.

C12-C16 alkyl benzyl dimethyl ammonium chloride (68424-85-1)	
LC50 fish 1	0.28 mg/l (96 hours)
EC50 Daphnia 1	0.016 mg/l (48 hours — Daphnia magna Straus)
IC50 Algae	0.049 mg/l (IC50, 72 hours)

12.2. Persistence and degradability

Self Cleaner	
Persistence and degradability	Biodegradable in water. May cause adverse long-term effects to the environment.
C12-C16 alkyl benzyl dimethyl ammonium chloride (68424-85-1)	
Biodegradability	95.5 % (28 days, method: OECD 301B)

12.3. Bioaccumulative potential

Self Cleaner	
Bioaccumulative potential	Not bioaccumulable.

12.4. Mobility in soil

Self Cleaner	
Ecology — soil	The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Self Cleaner
This substance/mixture does not meet the PBT criteria of the REACH regulation, Annex XIII
This substance/mixture does not meet the vPvB criteria of the REACH regulation, Annex XIII

12.6. Other adverse effects

Other adverse effects : None available.

Additional information : Avoid release to the environment

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Regional legislation (waste) : Dispose of as hazardous waste pursuant to the Norwegian Regulations relating to the Recycling of Waste (the Waste Regulations).

Product disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations. Dispose of contents/container to a hazardous and special waste collection point.

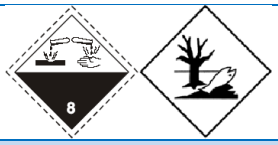
Additional information : The stated European List of Waste (LoW) code is indicative and depends on how the waste has come about. End users must pick the right code themselves.

Ecology — waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 18 02 05* — chemicals consisting of or containing hazardous substances

SECTION 14: TRANSPORT INFORMATION

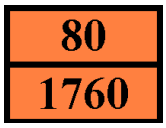
In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID
14.1. UN number			
1760	1760	1760	1760
14.2. UN proper shipping name			
CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	Corrosive liquid, n.o.s.	CORROSIVE LIQUID, N.O.S.
Transport document description			
UN 1760 CORROSIVE LIQUID, N.O.S. (C12-C16 alkyl benzyl dimethyl ammonium chloride), 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 1760 CORROSIVE LIQUID, N.O.S., 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard class(es)			
8	8	8	8
			
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Environmentally hazardous : Yes	Environmentally hazardous : Yes Marine pollutant : Yes	Environmentally hazardous : Yes	Environmentally hazardous : Yes

ADR	IMDG	IATA	RID
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification Code (ADR)	: C9
Special Provision (ADR)	: 274
Limited Quantities (ADR)	: 5 L
Excepted Quantities (ADR)	: E1
Packing Instructions (ADR)	: P001, IBC03, LP01, R001
Mixed Packing Instructions (ADR)	: MP19
Instructions for Portable Tanks and Bulk Containers (ADR)	: T7
Special Provisions for Portable Tanks and Bulk Containers (ADR)	: TP1, TP28
Tank Code (ADR)	: L4BN
Vehicle for Tank Carriage	: AT
Transport Category (ADR)	: 3
Special Packing Provisions for Packages (ADR)	: V12
Hazard Class	: 80
Orange Warning Sign	: 
Tunnel Restriction Code (ADR)	: E

Transport by sea

Special Provision (IMDG)	: 223, 274
Limited Quantities (IMDG)	: 5 L
Excepted Quantities (IMDG)	: E1
Packing Instructions (IMDG)	: P001, LP01
Packing Instructions for IBC (IMDG)	: IBC03
Tank Provisions (IMDG)	: T7
Special Provisions for Tanks (IMDG)	: TP1, TP28
EmS No. (Fire)	: F-A
EmS No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Flash Point (IMDG)	: -
Properties and Observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.

Air transport

PCA Excepted Quantities (IATA)	: E1
PCA Limited Quantities (IATA)	: Y841
PCA Limited Max Net Qty (IATA)	: 1 L
PCA Packing Instructions (IATA)	: 852
PCA Max Net Qty (IATA)	: 5 L
CAO Packing Instructions (IATA)	: 856
CAO Limited Max Net Qty (IATA)	: 60 L
Special Provision (IATA)	: A3
ERG code (IATA)	: 8 L

Rail transport

No data available

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

EU regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations

Regulation on the Classification, Labelling and Packaging of Substances and Mixtures, Regulation (EC) No. 2015/830, Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) No. 790/2009 Regulations concerning action and limit values for physical and chemical agents in the working environment and classified biological agents. Regulations relating to the recycling of waste (Waste Regulations). Transportation of dangerous goods: ADR/RID, IMDG, IATA/ICAO

Norway

Norwegian product registration number : **633435**

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Data sources : Regulation on the Classification, Labelling and Packaging of Substances and Mixtures, Regulation (EC) No. 2015/830, Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) No. 790/2009 Regulations concerning action and limit values for physical and chemical agents in the working environment and classified biological agents. Regulations relating to the recycling of waste (Waste Regulations). Transportation of dangerous goods: ADR/RID, IMDG, IATA/ICAO.

Other information : None.

Issue date : 07/10/2016

Revision date : 17/10/2020

Version : 2.0

Signature : TR/K. Dyreskog

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic, Category 2
Eye Dam. 1	Serious eye damage/irritation Category 1
Skin Corr. 1B	Corrosive/irritating to skin, Category 1B
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long-lasting effects
H411	Toxic to aquatic life with long-lasting effects

The information in this safety data sheet is based on our current knowledge, applicable regulations and national legislation. The information is based on latest available data and presupposes that the product is used within its intended area of application.

KTV GROUP
QUALITY ON TIME

SelfCleaner

IMPORTANT!

Additional information in connection with the Corona virus and disinfection with KTV Group SelfCleaner.

KTV Group SelfCleaner is a disinfectant that kills and removes bad smells from most known bacteria such as: Salmonella, Staphylococci, Colie, Listeria and Legionella.

The active substance in KTV Group SelfCleaner has been tested in accordance with DIN EN 14476: 2005-08. Applied to a clean surface at room temperature, with a working time of 15 minutes, it is effective against influenza virus A H1N1 / X-179A (Swine flu).

Literary studies also show that this product is very effective against several types of viruses such as: Coronavirus (SARS, MERS, Covid-19), Orthomyxovirus (Influenza A, B, C, D), Herpes-virus, Hepadnavirus (Hepatitis B) , Flavivirus (Hepatitis C, Yellow Fever), Rhabdovirus (Rabies), Retrovirus (HIV), Filovirus (Ebola).

KTV Group SelfCleaner can be used on all types of surfaces that can withstand water, both outside and inside.

Mixing ratio in water 9%.

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