

KTV[®] WINDOW CLEANER

KTV Window Cleaner – High performance concentrated detergent.

KTV Window Cleaner is a highly concentrated detergent special designed for use with clean water systems, enhancing the overall cleaning effect. In addition to windows, it is also effective on various other materials, including metals.

*** Specifically designed for use with drones and clean water systems**

VERY IMPORTANT!

Instructions for mixing and usage.

To prepare the solution, mix the concentrate with clean filtered water **ONLY**. Start by adding 0.5 liters of the concentrate into a clean 20-liter plastic container filled with clean filtered water. Never use tap water or dirty water.

During cleaning, use a high-pressure chemical injector set to 1%. You may adjust the concentration as needed, increasing for a stronger effect, usually no more than 2%, or reducing it to 0.5%.

The solution should be applied continuously throughout the cleaning process. **It must only be used in combination with purified osmosis water.**

One 20-liter container of high-concentrate solution yields 1,332 liters of ready-to-use cleaning solution.

Production Date: See packaging.

Storage and minimum shelf life: 12 months from production date.

Safety/hazard statements concentrated detergent:

Harmful if inhaled

Causes serious eye irritation

Precautionary statements:

- Avoid breathing vapour/spray.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Call a POISON CENTRE/doctor if you feel unwell.
- If eye irritation persists: Get medical advice/attention



WARNING - CONCENTRATED DETERGENT



Data sheet

Scan QR-code or go to:
www.ktvworkingdrone.com/datasheet

Volume: 20L

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

1.1 Product identifier

· Trade name: **Window Cleanze**

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

· Application of the substance / the mixture: Water-fed pole window cleaning additive.

1.3 Details of the supplier of the safety data sheet

· Address and telephone number of the supplier:

Benz Softwash Ltd

Trabolgan Road

Whitegate

Midleton

Cork, Ireland

Phone: (IRE) +353 (0) 21 46 22 978

Email: support@benzsoftwash.com

· Competent person responsible for the Material Safety Data Sheet:

Technical director: support@benzsoftwash.com

1.4 EMERGENCY PHONE NUMBERS

+44 (0) 870 190 6777 (National Emergency Centre) +44 (0)1270 502891

Poisons Information Service of Ireland: **Phone:** 01 809 2166

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical and Chemical Hazards: Not Classified

Human Health: Acute Tox. 4 – H332 Eye Irrit. 2 - H319

Environment: Not Classified

2.2 Label elements

· Labeling according to Regulation (EC) No 1272/2008

The product is labeled according to the CLP regulation.

· Hazard pictograms



GHS07

· Signal word: Warning

· Hazard-determining components of labeling:

Propriety – Benz Reagent C

· Hazard statements:

H332 Harmful if inhaled

H319 Causes serious eye irritation

· Precautionary statements:

P61 Avoid breathing vapour/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards: Other hazards have not been identified for this product.

SECTION 3: Composition/information on ingredients

3.2 mixtures

· Description:

Benz Propriety Reagent C	Acute Tox. 2 – H330, Skin Irrit. 2 – H315, Eye Dam. 1 - H318	100%
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SECTION 4: First aid measures

4.1 Description of first aid measures

- **General information:** Wash hands and remove clothing if in contact with raw product.
- **After inhalation:** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Consult a physician for specific advice.
- **After skin contact:** Immediately rinse with water. If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.
- **After swallowing:** Rinse mouth carefully. Do not induce vomiting; call for medical help immediately.

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

Inhalation Ingestion Skin contact Eye contact

Harmful if inhaled.

May cause irritation.

May cause irritation.

Causes serious eye irritation. Profuse watering of the eyes. Pain.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents

Window Cleanze is not flammable

· Unsuitable extinguishing agents for reasons of safety:

None

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing

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Keep unprotected persons away.

6.2 Environmental precautions:

Avoid direct discharge into drains

6.3 Methods and material for containment and cleaning up:

Suitable binder: multi-purpose absorbent.

Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

None.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Ensure good exhaust ventilation at the workplace.

Avoid contact with eyes and skin

7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and containers:

Store only in the original container.

Prevent seepage into the ground.

Information about suitable materials for vessels and piping can be requested from our technical department
department Tel.: +353(021) 46 22 978 or email support@benzsoftwash.com

Information about storage in a common storage facility: Store away from foodstuffs.

· **Further information about storage conditions:** Store in cool, dry place in tightly closed receptacles 10

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL	General population - Oral; Long term systemic effects: 0.15 mg/kg/day General population - Inhalation; Long term systemic effects: 5 mg/m3 Workers - Inhalation; Long term systemic effects: 5 mg/m3
PNEC	Fresh water; 0.0297 mg/l Intermittent release, Water; 0.297 mg/l marine water; 0.003 mg/l

Additional information: Information valid at the time of review of safety data sheet.

· **Ingredients with limit values where monitoring at the workplace is recommended :**

The product does not contain any relevant quantities of materials with critical values where monitoring at the workplace is recommended.

8.2 Exposure controls

· **Personal protective equipment**



· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling Window cleanze in concentrated form.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

Safety shower at proximity.

Eye wash station at proximity.

· **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation. Filter A/P2. (DIN/EN 141)

· **Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the Preparation. Impervious gloves. Check the condition of protective gloves after each use for any damages like holes, cuts or tears. Do not wear protective gloves longer than necessary.

· **Eye protection:** Tightly sealed goggles Face protection

· **Material of gloves:** Nitrile rubber, NBR

· **Penetration time of glove material:**

Thickness: 0.4 mm; break-through time: 480 min; material: Nitrile; permeation: level 6

· **Gloves made of the following materials are not suitable:**

Gloves for mechanical protection do not provide protection against chemicals.

· **Eye protection:** Wear LPE (Light Eye Protection) A device for rinsing eyes must be available at the work place.

Body protection: Protective clothing.

· **Risk management measures**

The operators shall be instructed adequately.

The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· **General Information**

· **Appearance:**

Form:

Liquid

Colour:

Colorless to pale yellow liquid.

· **Odour:**

Mild characteristic odour

· **Odour threshold:**

Not determined

· **pH-value:**

8-9

· Change in condition	
Melting point/Melting range:	< 0 °C
Boiling point/Boiling range:	>100 °C
· Flash point:	N/A
· Ignition temperature:	N/A
· Self-inflammability:	Product is not self-igniting.
· Danger of explosion:	Does not present an explosion hazard
· Critical values for explosion:	
Lower:	N/A
Upper:	N/A
· Vapour pressure at 20 °C:	48 hPa (IPA)
· Density at 20 °C	>0.8g/cm ³ <1 g/cm ³
· Solubility in / Miscibility with	
Water:	Fully miscible
Organic solvents:	0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity:

No dangerous reactions known

10.2 Chemical stability

· Minimum shelf life: 12 months from production date.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: None, if storage and handling is done according to specification.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)

Inhalation: Harmful if inhaled

Ingestion: May cause irritation.

Skin contact: May cause irritation.

Eye contact: Causes serious eye irritation. Profuse watering of the eyes. Pain

Toxicological information on ingredients.

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg): 5,000

Species: Rat ATE oral (mg/kg): 5,000

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 vapours mg/l): 1.0

Species: Rat ATE inhalation (vapours mg/l): 0.5

SECTION 12: Ecological Information

12.1. Toxicity

Ecological information on ingredients.

Acute aquatic toxicity:

Acute toxicity – fish: 11.0 LC50, 96 hours: 107 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates: EC50, 48 hours: 29.7 mg/l, Daphnia magna

Acute toxicity - aquatic plants: EC50, 72 hours: 79 mg/l, Desmodium subspicatus NOEC, : 9.2 mg/l, Desmodium subspicatus

Acute toxicity – microorganisms: EC50, 3 hours: >1000 mg/l, Activated sludge

12.2. Persistence and degradability**Ecological information on ingredients:**

Persistence and degradability: The substance is readily biodegradable. This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Biological oxygen demand: BOD5 0.440 g O2/g substance BOD28 0.610 g

Chemical oxygen demand: O2/g substance 0.640 g O2/g substance

12.3. Bioaccumulative potential

Ecological information on ingredients:

Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil: No data available

12.5. Results of PBT and vPvB assessment Ecological information on ingredients:

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects: None known

SECTION 13: Disposal considerations**13.1 Waste treatment methods****• Recommendation:**

Do not empty into drains and avoid release to the environment.

Must be specially treated adhering to official regulations.

Please contact manufacturer for recycling information.

This product must be disposed in a certificated hazardous or special waste collection point.

• Uncleaned packaging:**• Recommendation:**

Disposal must be made according to official regulations.

Packaging may be reused or recycled after cleaning.

If recycling is not possible, dispose according to the local regulations.

• Recommended cleansing agents: Water

SECTION 14: Transport information

General Information: The product is not covered by international regulations on the transport of dangerous goods. (IMDG, IATA, ADR/RID)

14.1 UN-Number:

• **ADR, IMDG, IATA** N/A

14.2 UN proper shipping name

• **ADR:** N/A

• **IMDG:** N/A

• **IATA** N/A

14.3 Transport hazard class(es)

No transport warning sign required.

14.4 Packing group

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II

of Marpol and the IBC Code Not applicable.

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

• Labelling according to Regulation (EC) No 1272/2008

safety data sheet is in compliance with the Regulation (EC) N° 1907/2006

• Chemical safety assessment:

A Chemical Safety Assessment has been carried out.

The additives contained in this preparation complies(comply) with the biodegradability criteria as laid down in

Regulation (EC) N° 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent

authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

Contact point: support@benzsoftwash.com

SECTION 16: Other information

This data is based on our current knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.

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· **Relevant phrases in full:**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

· **Training hints**

Further information regarding the directions for use can be found in the Product Data Sheet.

· **Classification according to Regulation (EC) No 1272/2008**

The classification includes the relevant available information about the mixture or the substances contained therein.

The evaluation of the available information within the scope of classification refers to the forms and aggregate states in which the mixture has been placed on the market and will be used most likely.

· **Contact for technical information: support@benzsoftwash.com**

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic