

## SAFETY DATA SHEET

### KATUN Glass & Mirror Cleaner

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### 1. Identification

##### Product identifier

**Product name** KATUN Glass & Mirror Cleaner  
**Product number** 15491, ZP

##### Recommended use of the chemical and restrictions on use

**Application** Cleaning agent.  
**Uses advised against** No specific uses advised against are identified.

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

**Supplier** Katun Corporation  
 10951 Bush Lake Road  
 Minneapolis  
 MN U.S.A. 55438-2391  
 Tel: 952-941-9505  
 www.katun.com

##### Emergency telephone number

**Emergency telephone** IN CASE OF EMERGENCY CALL:  
 +1 202 464 2554 (USA only) (24hr, Provided by Carechem 24)  
 +44 1235 239670 (24hr, Provided by Carechem 24)

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Not Classified  
**Health hazards** Not Classified  
**Environmental hazards** Aquatic Acute 3 - H402

##### Label elements

**Hazard statements** H402 Harmful to aquatic life.  
**Precautionary statements** P102 Keep out of reach of children.

##### Other hazards

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

#### 3. Composition/information on ingredients

##### Mixtures

|                        |               |
|------------------------|---------------|
| <b>2-Butoxyethanol</b> | <b>&lt;1%</b> |
| CAS number: 111-76-2   |               |

##### Classification

Acute Tox. 4 - H302  
 Acute Tox. 4 - H312  
 Acute Tox. 4 - H332  
 Skin Irrit. 2 - H315  
 Eye Irrit. 2A - H319

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|  |
|--|
| <b>1-Methoxy-2-propanol</b> <span style="float: right;"><b>&lt;1%</b></span><br>CAS number: 107-98-2   |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>STOT SE 3 - H336   |
| <b>Benzyl-C12-14-alkyldimethylammonium chlorides</b> <span style="float: right;"><b>&lt;1%</b></span><br>CAS number: 68424-85-1<br>M factor (Acute) = 10 <span style="margin-left: 100px;">M factor (Chronic) = 1</span> |
| <b>Classification</b><br>Acute Tox. 4 - H302<br>Skin Corr. 1B - H314<br>Eye Dam. 1 - H318<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410  |
| <b>Ethanol</b> <span style="float: right;"><b>&lt;1%</b></span><br>CAS number: 64-17-5   |
| <b>Classification</b><br>Flam. Liq. 2 - H225   |
| <b>Diethyl phthalate</b> <span style="float: right;"><b>&lt;1%</b></span><br>CAS number: 84-66-2   |
| <b>Classification</b><br>Not Classified  |
| <b>Citral</b> <span style="float: right;"><b>&lt;1%</b></span><br>CAS number: 5392-40-5  |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Eye Irrit. 2A - H319<br>Skin Sens. 1 - H317   |

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|                          |                        |
|--------------------------|------------------------|
| <b>Pin-2(3)-ene</b>      | <b>&lt;1%</b>          |
| CAS number: 80-56-8      |                        |
| M factor (Acute) = 1     | M factor (Chronic) = 1 |
| <b>Classification</b>    |                        |
| Flam. Liq. 3 - H226      |                        |
| Skin Irrit. 2 - H315     |                        |
| Skin Sens. 1B - H317     |                        |
| Asp. Tox. 1 - H304       |                        |
| Aquatic Acute 1 - H400   |                        |
| Aquatic Chronic 1 - H410 |                        |

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

|                                   |  |
|-----------------------------------|--|
| <b>General information</b>        | If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.   |
| <b>Inhalation</b>                 | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist. |
| <b>Ingestion</b>                  | Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.  |
| <b>Skin Contact</b>               | Rinse with water.  |
| <b>Eye contact</b>                | Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.  |
| <b>Protection of first aiders</b> | First aid personnel should wear appropriate protective equipment during any rescue.  |

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

|                            |   |
|----------------------------|---|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>          | No specific symptoms known.   |
| <b>Ingestion</b>           | No specific symptoms known.   |
| <b>Skin contact</b>        | No specific symptoms known.   |
| <b>Eye contact</b>         | No specific symptoms known. May be slightly irritating to eyes.   |

#### Indication of immediate medical attention and special treatment needed

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically.         |
| <b>Specific treatments</b>  | No special treatment required. |

### 5. Fire-fighting measures

#### Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.   |

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### Special hazards arising from the substance or mixture

**Specific hazards** Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances:  
Harmful gases or vapors.

### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.

### Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store away from incompatible materials (see Section 10). Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

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**Storage class** Unspecified storage.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

**Control parameters**

**Occupational exposure limits**

**2-Butoxyethanol**

Long-term exposure limit (8-hour TWA): OSHA 50 ppm 240 mg/m<sup>3</sup>  
Sk

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 97 mg/m<sup>3</sup>  
A3

**1-Methoxy-2-propanol**

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm 184 mg/m<sup>3</sup>  
Short-term exposure limit (15-minute): ACGIH 100 ppm 369 mg/m<sup>3</sup>  
A4

**Ethanol**

Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m<sup>3</sup>  
A3

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 1900 mg/m<sup>3</sup>

**Diethyl phthalate**

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m<sup>3</sup>  
A4

**Citral**

Long-term exposure limit (8-hour TWA): ACGIH 5 ppm 32 mg/m<sup>3</sup> inhalable fraction and vapor  
A4, DSens, Sk

**Pin-2(3)-ene**

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 112 mg/m<sup>3</sup>  
A4, DSens

OSHA = Occupational Safety and Health Administration.  
ACGIH = American Conference of Governmental Industrial Hygienists.  
Sk = Danger of cutaneous absorption.  
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.  
A4 = Not Classifiable as a Human Carcinogen.  
DSens = Dermal sensitizer.

**2-Butoxyethanol (CAS: 111-76-2)**

**Immediate danger to life and health** 700 ppm

**Ethanol (CAS: 64-17-5)**

**Immediate danger to life and health** 3300 ppm

**Exposure controls**

**Appropriate engineering controls** Provide adequate ventilation.

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|  |   |
|--|---|
| <b>Eye/face protection</b>             | Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.              |
| <b>Hand protection</b>                 | No specific hand protection recommended.  |
| <b>Other skin and body protection</b>  | Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. |
| <b>Hygiene measures</b>                | Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.  |
| <b>Respiratory protection</b>          | No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.                   |
| <b>Environmental exposure controls</b> | Keep container tightly sealed when not in use. Avoid release to the environment.  |

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

|   |   |
|---|---|
| <b>Appearance</b>                                   | Liquid.   |
| <b>Color</b>  | Colorless.  |
| <b>Odor</b>   | Characteristic.   |
| <b>Odor threshold</b>                               | Not available.  |
| <b>pH</b>   | Not available.  |
| <b>Melting point</b>                                | Not available.  |
| <b>Initial boiling point and range</b>              | Not available.  |
| <b>Flash point</b>                                  | >55°C Closed cup.   |
| <b>Evaporation rate</b>                             | Not available.  |
| <b>Evaporation factor</b>                           | Not available.  |
| <b>Flammability (solid, gas)</b>                    | Not available.  |
| <b>Upper/lower flammability or explosive limits</b> | Not available.  |
| <b>Other flammability</b>                           | Not available.  |
| <b>Vapor pressure</b>                               | Not available.  |
| <b>Vapor density</b>                                | Not available.  |
| <b>Relative density</b>                             | 0.997   |
| <b>Bulk density</b>                                 | Not available.  |
| <b>Solubility(ies)</b>                              | Not available.  |
| <b>Partition coefficient</b>                        | Not available.  |
| <b>Auto-ignition temperature</b>                    | Not available.  |
| <b>Decomposition Temperature</b>                    | Not available.  |
| <b>Viscosity</b>                                    | Not available.  |
| <b>Explosive properties</b>                         | Not considered to be explosive.                             |
| <b>Oxidizing properties</b>                         | Does not meet the criteria for classification as oxidizing. |

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### 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | See the other subsections of this section for further details.  |
| <b>Stability</b>                          | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.   |
| <b>Possibility of hazardous reactions</b> | No potentially hazardous reactions known.   |
| <b>Conditions to avoid</b>                | There are no known conditions that are likely to result in a hazardous situation.   |
| <b>Materials to avoid</b>                 | No specific material or group of materials is likely to react with the product to produce a hazardous situation.  |
| <b>Hazardous decomposition products</b>   | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. |

### 11. Toxicological information

#### Information on toxicological effects

|   |  |
|---|--|
| <b>Toxicological effects</b>                | Not regarded as a health hazard under current legislation.       |
| <b><u>Acute toxicity - oral</u></b>         |  |
| <b>Notes (oral LD<sub>50</sub>)</b>         | Based on available data the classification criteria are not met. |
| <b><u>Acute toxicity - dermal</u></b>       |  |
| <b>Notes (dermal LD<sub>50</sub>)</b>       | Based on available data the classification criteria are not met. |
| <b><u>Acute toxicity - inhalation</u></b>   |  |
| <b>Notes (inhalation LC<sub>50</sub>)</b>   | Based on available data the classification criteria are not met. |
| <b><u>Skin corrosion/irritation</u></b>     |  |
| <b>Animal data</b>                          | Based on available data the classification criteria are not met. |
| <b><u>Serious eye damage/irritation</u></b> |  |
| <b>Serious eye damage/irritation</b>        | Based on available data the classification criteria are not met. |
| <b><u>Respiratory sensitization</u></b>     |  |
| <b>Respiratory sensitization</b>            | Based on available data the classification criteria are not met. |
| <b><u>Skin sensitization</u></b>            |  |
| <b>Skin sensitization</b>                   | Based on available data the classification criteria are not met. |
| <b><u>Germ cell mutagenicity</u></b>        |  |
| <b>Genotoxicity - in vitro</b>              | Based on available data the classification criteria are not met. |
| <b><u>Carcinogenicity</u></b>               |  |
| <b>Carcinogenicity</b>                      | Based on available data the classification criteria are not met. |
| <b>IARC carcinogenicity</b>                 | None of the ingredients are listed or exempt.                    |
| <b><u>Reproductive toxicity</u></b>         |  |
| <b>Reproductive toxicity - fertility</b>    | Based on available data the classification criteria are not met. |
| <b>Reproductive toxicity - development</b>  | Based on available data the classification criteria are not met. |

## KATUN Glass & Mirror Cleaner

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### **General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### **Inhalation**

No specific symptoms known.

### **Ingestion**

No specific symptoms known.

### **Skin Contact**

No specific symptoms known.

### **Eye contact**

No specific symptoms known.

### **Route of exposure**

Ingestion Inhalation Skin and/or eye contact

### **Target Organs**

No specific target organs known.

## 12. Ecological information

### **Ecotoxicity**

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

### **Toxicity**

Based on available data the classification criteria are not met.

### Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

### **Partition coefficient**

Not available.

### Mobility in soil

### **Mobility**

No data available.

### Other adverse effects

**Other adverse effects** None known.

## 13. Disposal considerations

### Waste treatment methods

### **General information**

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

### **Disposal methods**

Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## 14. Transport information



## KATUN Glass & Mirror Cleaner

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

### UN Number

**UN No. (International)** Not applicable.

**UN No. (DOT)** Not applicable.

### UN proper shipping name

**Proper shipping name (International)** Not applicable.

**Proper shipping name (DOT)** Not applicable.

### Transport hazard class(es)

**Transport Labels (International)** No transport warning sign required.

### DOT transport labels

No transport warning sign required.

### Packing group

**Packing group (International)** Not applicable.

**DOT packing group** Not applicable.

### Environmental hazards

#### **Environmentally Hazardous Substance**

No.

### Special precautions for user

Not applicable.

**DOT reportable quantity** Not applicable.

**DOT TIH Zone** Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory information

### US Federal Regulations

#### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

#### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed or exempt.

#### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

#### **SARA 313 Emission Reporting**

None of the ingredients are listed or exempt.

#### **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

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### **FDA - Essential Chemical**

None of the ingredients are listed or exempt.

### **FDA - Precursor Chemical**

None of the ingredients are listed or exempt.

### **SARA (311/312) Hazard Categories**

None of the ingredients are listed or exempt.

### **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

### **US State Regulations**

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### **California Air Toxics "Hot Spots" (A-I)**

None of the ingredients are listed or exempt.

#### **California Air Toxics "Hot Spots" (A-II)**

None of the ingredients are listed or exempt.

#### **California Directors List of Hazardous Substances**

None of the ingredients are listed or exempt.

#### **Massachusetts "Right To Know" List**

None of the ingredients are listed or exempt.

#### **Rhode Island "Right To Know" List**

None of the ingredients are listed or exempt.

#### **Minnesota "Right To Know" List**

None of the ingredients are listed or exempt.

#### **New Jersey "Right To Know" List**

None of the ingredients are listed or exempt.

#### **Pennsylvania "Right To Know" List**

None of the ingredients are listed or exempt.

### **Inventories**

#### **US - TSCA**

None of the ingredients are listed or exempt.

#### **US - TSCA 12(b) Export Notification**

None of the ingredients are listed or exempt.

|                              |
|------------------------------|
| <b>16. Other information</b> |
|------------------------------|

## KATUN Glass & Mirror Cleaner

|   |  |
|---|--|
| <b>Abbreviations and acronyms used in the safety data sheet</b> | <p>TDG: The transport of dangerous goods act</p> <p>IATA: International air transport association.</p> <p>ICAO: Technical instructions for the safe transport of dangerous goods by air.</p> <p>IMDG: International maritime dangerous goods.</p> <p>CAS: Chemical abstracts service.</p> <p>ATE: Acute toxicity estimate.</p> <p>LC<sub>50</sub>: Lethal concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).</p> <p>EC<sub>50</sub>: 50% of maximal effective concentration.</p> <p>PBT: Persistent, bioaccumulative and toxic substance.</p> <p>vPvB: Very persistent and very bioaccumulative.</p>    |
| <b>Training advice</b>  | Read and follow manufacturer's recommendations.  |
| <b>Issued by</b>  | Toni Ashford   |
| <b>Revision date</b>  | 8/5/2019   |
| <b>Revision</b>   | 1.1  |
| <b>SDS No.</b>  | 1022   |
| <b>Hazard statements in full</b>                                | <p>H225 Highly flammable liquid and vapor.</p> <p>H226 Flammable liquid and vapor.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H400 Very toxic to aquatic life.</p> <p>H402 Harmful to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> |

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.