

GLASS AND CHROME CLEANER

FEATURES & APPLICATIONS

Glass and Chrome trigger spray is made to a unique formula which cuts through dirt and grease easily. Leaving surfaces free of streaks and smears, with a fresh apple fragrance. The active ingredient in vinegar is present in the formulation and this gives an added sparkle to surfaces.

APPLICATION DETAILS

| Task | Maximum Dilution | How To Use |
|---|------------------|--|
| Cleaning windows, mirrors, chrome, tiles, formica and ceramics. | Use undiluted | Spray onto surface from a distance of 30cm or so. Wipe off with a soft, dry cloth. Use sparingly to avoid streaking. |

PRODUCT AND PACKAGING INFORMATION

| | |
|--------------------------------|---|
| Appearance & Odour: | Clear colourless liquid with fresh apple fragrance. |
| Chemical Description: | An aqueous solution of solvents, surfactant, biocide, acid and perfume. |
| Packaging: | 6 x 750ml |
| Shelf Life: | 2 years |

ENVIRONMENTAL INFORMATION

General Information: This product should have little ecological impact.

Environmental Checklist:

| | | | | | |
|--------------------------|-----|-------------------------|-----|-------------------------|-----|
| Biodegradable detergents | Yes | CFC free | Yes | Solvent free | No |
| Phosphate free | Yes | Acid/alkali free | No | Free of dyes/perfumes | No |
| Recyclable packaging | Yes | Biodegradable container | No | Biodegradable outer box | Yes |

FURTHER INFORMATION AVAILABLE ON REQUEST

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

| | | | |
|--|--|----------------------------|--|
| Commercial Name Intended/Recommended use | Glass and Chrome Cleaner Trigger-Spray Glass Cleaner | Supplier Address | Unico Ltd North Main Street, Carronshore, Falkirk FK2 8HT 01324 573400 01324 573401 |
| Issue Date Issue Number | May 2015 5 | Telephone Fax | |

2. HAZARDS IDENTIFICATION

2.1 Classification This product has no classification according to Chemicals (Hazard Information Packaging and Supply) Regulations 2002.

This product is classified under EC 1272/2008

| | |
|-------------------------------|----------------------------------|
| Physical and Chemical Hazards | Not Classified |
| Human Health | May be irritating to skin & eyes |
| Environment | Not classified |

2.1 Label Elements Label in Accordance with (EC) No. 1272/2008



| | |
|-------------------|--|
| Signal Word | Warning |
| Hazard Statements | H226 Flammable liquid and vapour H320 Causes eye irritation H315 Causes skin irritation |

Precautionary Statements

P102 - Keep out of the Reach of Children
P103 – Please read the label information before use.
EUH 210 - Safety data sheet available on request.
P302 +P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P305 +P351 +P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P281 Use personal protective equipment as required.
Wear eye piece protection when there is a risk of splashing.
Rubber /impervious Gloves for skin protection if sensitive skin

3. COMPOSITION OF PRODUCT AND INFORMATION ON INGREDIENTS

2.1 Mixtures

Concentrations below the concentration limit for classification in mixtures means that substance not reaching this does not need to be classified. Those that do not reach this concentration will still be included as indicative advice only.

| | |
|-------------------------------|------------------------|
| Propylene Glycol Ether Blend | 1 – 10% |
| CAS-No.: 029387-86-8 | EC No.: 249-598-7 |
| Classification (EC 1272/2008) | Flammable 3 – H226 |
| Eye Irritant 1 – H320 | Skin Irritant 2 – H315 |

| <u>NAME</u> | <u>RANGE</u> | <u>EINECS</u> | <u>CAS No</u> | <u>Conc. Limit for Classification</u> |
|--------------------------------------|--------------|---------------|---------------|---------------------------------------|
| Acetic Acid (Glacial) | 0.1-1% | 200-580-7 | 64-19-7 | 1% |
| Alkyl dimethyl betaine | 0.1-1% | 266-368-1 | 66455-29-6 | 1% |
| Perfume (Parfum) | < 0.1% | Mixed | Mixed | 1% |
| Butylphenyl Methylpropional (Lilial) | < 0.1% | - | 80-54-6 | 1% |
| Linalool | < 0.1% | - | 78-70-6 | 1% |
| Limonene | < 0.1% | - | 5989-27-5 | 1% |

4. FIRST AID MEASURES

4.1 Description of first aid measures

- Ingestion** Drink a glass of water to dilute product. Do not induce vomiting. Act immediately to prevent further irritation of mouth, throat and stomach mucosa.
- Inhalation** No ill effects expected at concentrations used. If irritation is experienced go in open air and ventilate area. Mouth and throat may be rinsed with water.
- Eye Contact** Check for and remove contact lenses. Rinse thoroughly with plenty of water for several minutes.
- Skin Contact** Rinse affected area with water as instructed, if needed apply a cold compress to relieve irritation.

4.2 Most Important symptoms and effects, both acute & chronic

Where irritation of tissue occurs, stinging and redden accompanied by some discomfort for a short period after exposure no further exposure until condition improves. No Chronic effects known at the concentrations used in the mixture

4.3 Indication of any immediate medical attention and special treatment needed

If irritation to the mouth, throat, stomach, skin, eyes or respiratory system occurs and doesn't subside within a few minutes after the first aid measures have been carried out, seek immediate medical advice and have this SDS or the product label to hand.

A cold compress can be used to alleviate skin irritation.

5. FIRE FIGHTING MEASURES

- 5.1 Suitable extinguishing media** This product is not classed as flammable by applying dilution factor. Use fire extinguishing media appropriate for surrounding area but carbon dioxide or foam for any close points of ignition.
- Unsuitable extinguishing media** Not applicable but water jets not preferred.
- 5.2 Special hazards arising from the substance or mixture** Fumes may contain poisonous oxides of carbon and nitrogen (CO_x & NO_x) if affected by fire.
- 5.3 Advice for firefighters** Use appropriate extinguishing media for fires in the area. Firefighters should wear self-contained breathing apparatus if heat generated breakdown products are likely to be present

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing and eyeshields. Ventilate the area.
- 6.2 Environmental Precautions**
Avoid spillage into surface water drains, soil / subsoil or vegetation.
- 6.3 Methods and material for containment and cleaning up**
Hose away with plenty of water, diluting well, unless this would contaminate a water source or vegetation. In which case either collect, dilute as earlier and pour down waste drain (foul sewer) or absorb onto dry sand or similar material and dispose of safely as commercial waste.

7. HANDLING AND STORAGE

- 7.1 Handling** Take care when dispensing product from container and assure adequate ventilation. Avoid contact with skin and eyes. Do not mix with any other chemicals.
- 7.2 Storage** Store upright in original containers in a cool dry area out of the reach of children.
- 7.3 Specific end use(s)** Use only as directed by the front page of this document and the product label

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Note: No substances above 1% in the product with a listed exposure limit

8.2 Exposure Control

- Respiratory Protection** Personal protection is not normally required unless a risk assessment indicates the need for it .In which case wear a facemask with a suitable particulate filter.
- Skin Protection** Personal protection is not normally required unless a risk assessment indicates the need for it .In which case wear protective overalls and safety shoes/boots.
- Eye Protection** Personal protection is not normally required unless a risk assessment indicates the need for it .In which case ear

Hand Protection eyeshields.
For prolonged contact or sensitive skin the use of rubber gloves is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | | | |
|-----------------------------|---------------|-----------------------------|----------------|
| Appearance | Clear liquid | Flash Point (ACC) | 48°C |
| Odour | Apple | Viscosity (20C) | 1 cp approx |
| pH | 3.5 typically | Water Solubility | Soluble |
| Boiling Point | Approx 100°C | Explosive Properties | None |
| Oxidising Properties | None | Vapour Pressure | Not Applicable |
| Fat Solubility | - | Relative Density | 1.00 |

9.2 Other Information

None

10. STABILITY AND REACTIVITY

| | |
|--|---|
| 10.1 Reactivity | Not known to react with other chemicals |
| 10.2 Chemical Stability | Will react with strong alkalis |
| 10.3 Hazardous Reactions | None known |
| 10.4 Conditions to Avoid | Extreme heat or cold |
| 10.5 Incompatible Materials | None known. |
| 10.6 Hazardous decomposition products | Oxides of carbon & nitrogen. |

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

Consideration is only given to components with greater than 1% based on the product formulation and those with a listed exposure limit in Section 8.

Acute Toxicity – Irritant & damaging to tissue and eyes

| Component | LD-50, Oral, mg/kg | LD-50, Skin mg/kg | LC-50 (Inhalation) | Chronic Consideration |
|------------------------------|--------------------|-------------------|--------------------|-----------------------|
| Propylene Glycol Ether Blend | 3300 (rat) | | | None known |

Chronic Toxicity

| | |
|----------------------------------|---|
| Carcinogenicity | There are no known carcinogenic chemicals in this product |
| Sensitization | No information available. |
| Mutagenic Effects | No information available |
| Reproductive Effects | No information available. |
| Developmental Effects | No information available. |
| Target Organs | No information available |
| Endocrine Disruptor Info. | No information available. |
| Other Adverse Effects | The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information |

12. ECOLOGICAL INFORMATION

12.1 Toxicity Ecotoxicity effects

| Component | Toxicity to Fish LC-50, mg/l | Exposure Time, Hrs | Comments |
|------------------------------|------------------------------|--------------------|-------------|
| Propylene Glycol Ether Blend | >500 (fish) | 96 | SIDS Report |

12.3 Bioaccumulation Potential

With the current information available, when used for its intended purpose this product will not cause adverse effects in the environment.

12.4 Mobility in soil No information available

12.5 Aquatic Toxicity With the current information available, this is judged to be low at the dilutions that exist.

12.6 Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Discharge used working solutions to drain is acceptable in small amounts due to the dilution of running water. Small amounts (less than 1 Litre) of unwanted concentrated product may be flushed with water to sewer with at least 15 minutes of running water.

Larger volumes of the concentrated product must be sent for disposal using a licensed waste disposal contractor.

Rinse out empty container with water and consign to normal waste.

14. TRANSPORT

Not regulated for Transport with current knowledge

15. REGULATORY INFORMATION

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

EU legislation

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Guidance

Workplace Exposure Limits EH40.

The National Institute for Occupational Safety and Health (NIOSH) register of Immediately Dangerous to Life or Health Concentrations (IDLH)

16. OTHER INFORMATION

This product does not require any special training before use. Usage and handling instructions are mentioned on packaging and on the first page of this Safety Data Sheet. This health and safety information refers to the concentrated product and has been prepared assuming the intended described use is adhered to. Any unusual or novel use of this product is done without being assessed for the impact nor is it part of the considerations in this document.

Diluted solutions can be considered to be significantly less hazardous although they should always be handled with care.

Key literature references and sources for data

Safety Data Sheet, Misc. manufacturers.

CLP Classification - Table 3.1 List of harmonised classification and labelling of hazardous substances.

CHIP Classification - Table 3.2 The list of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC.

ECHA - C&L Inventory database.

OECD SIDS Database

Revision comments

This product is now using classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Revision date 01/05/2017 T

The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Risk Phrases / Hazard Statements relating to this Product see Section 2. Greatly diluted presence of perfume allergens Butylphenyl Methylpropional (Lilial), Linalool, Limonene.

Hazard statements in full

H226 Flammable liquid & vapour

H315 Causes skin irritation

H320 Causes eye irritation