1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Identity / Alternate Names: Glass & Hard Surface Cleaner (Concentrate)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use: Glass and Non-Porous Surface Cleaner
Application Method: Spray on Glass and Hard surfaces and wipe clean.

1.3. Details of the supplier of the safety data sheet
Company Name: Big 3 Packaging, LLC
2275 Bridge Street. The Arsenal Building #209
Philadelphia, PA 19137

Emergency CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. 800-535-5053
Customer Service: Big 3 Packaging, LLC 215-743-4201

2. Hazard identification of the product

The hazard classification and label elements reflect the intrinsic properties of the concentrate product as supplied, which is sealed in a water soluble sachet. The sachet when intact provides a barrier to dermal and inhalation exposure under conditions of normal handling and use. The precautionary statements are applicable under conditions of potential exposure to the concentrate itself.

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Skin Irrit. 2:H315 Causes skin irritation.
Eye Irrit. 2:H319 Causes serious eye irritation.

Classification according to 67/548/EEC or 1999/45/EC.
Xi Irritant.
R36/38 Irritating to eyes and skin.
2.2. Label elements
Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.
According to Regulation (EC) No 1272/2008

H315 Causes skin irritation.
H319 Causes serious eye irritation.

[Prevention]:
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P321 Specific treatment (see information on this label).
P337+313 If eye irritation persists: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.

[Storage]: No CLP storage statements
[Disposal]: No CLP disposal statements

2.3. Other hazards
This product contains no PBT/vPvB chemicals.

3. Composition/information on ingredients

If the product contains substances that present a health hazard within the meaning of the Dangerous Substances Directive 67/548/EC, or have occupational exposure limits detailed in EH40, these substances are listed below.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>67/548/EEC Classification*</th>
<th>EC No. 1272/2008 Classification*</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Surfactant</td>
<td>25 - 50</td>
<td>R36</td>
<td>Eye Irrit. 2;H319</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: Proprietary</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Index No.:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-methylpentane-2,4-diol</td>
<td>10 - 25</td>
<td>Xi;R36/38</td>
<td>Eye Irrit. 2;H319</td>
<td>[1][2]</td>
</tr>
<tr>
<td>CAS Number: 0000107-41-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC No.</td>
<td>203-489-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Index No.: 603-053-00-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Window Glass Cleaner Fragrance</td>
<td>1.0 - 10</td>
<td></td>
<td>Acute Tox. 3;H301</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: Proprietary</td>
<td></td>
<td></td>
<td>Combustible Liquid;H227</td>
<td></td>
</tr>
<tr>
<td>EC No.</td>
<td></td>
<td></td>
<td>Eye Irrit. 2;H319</td>
<td></td>
</tr>
<tr>
<td>Index No.:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tetrahydrofurfuryl alcohol</td>
<td>1.0 - 10</td>
<td>R61 R62 R36</td>
<td>Eye Irrit. 2;H319</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0000097-99-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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4. First aid measures

4.1. Description of first aid measures

General
SDS reflects product as shipped. Product as used in diluted form is non hazardous

Inhalation
Remove to fresh air, seek medical attention if symptoms persist.

Eyes
Irrigate copiously with clean water, holding the eyelids apart and seek medical attention if symptoms persist.

Skin
Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion
Have victim sip water if awake. Contact a physician immediately. Do not induce vomiting.

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

Overview
No specific symptom data available. See section 2 for further details.

Eyes
Causes serious eye irritation.

Skin
Causes skin irritation.

5. Fire-fighting measures

5.1. Extinguishing media
Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Do not use; water jet.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition: Oxides of Carbon

5.3. Advice for fire-fighters
Cool closed containers exposed to fire by spraying them with water.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up
Rinse to local sanitary sewer.
7. Handling and storage

7.1. Precautions for safe handling
See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities
Handle containers carefully to prevent damage and spillage.
Store between 40°F and 140°F
Incompatible materials: Oxidizers or Reducing Agents
See section 2 for further details. - [Storage]:

7.3. Specific end use(s)
No data available.

8. Exposure controls and personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000107-41-5</td>
<td>2-methylpentane-2,4-diol</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>Ceiling: 25 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>C 25 ppm (125 mg/m3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

This product contains no known or suspected carcinogens (as listed by OSHA, NTP, and IARC), and is not believed to be carcinogenic.

8.2. Exposure controls

Respiratory
If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes
Avoid eye contact.

Skin
Keep skin contact with concentrate to a minimum.

Engineering Controls
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

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9. Physical and chemical properties

Appearance
Clear Dark Blue Liquid
Odor
Pleasant
Odor threshold
Not Measured
pH
8.5 ± 0.5
Melting point / freezing point
Not Established
Initial boiling point and boiling range
Not Established
Flash Point
> 210 F
Evaporation rate (Ether = 1)
Slower than ethyl ether
Flammability (solid, gas)
Not Applicable
Upper/lower flammability or explosive limits
Lower Explosive Limit: Not Established
Upper Explosive Limit: Not Established

Vapor pressure (Pa)
Not Established
Vapor Density
Heavier than air
Specific Gravity
0.99 (on dilution ≈ 1.0)
Solubility in Water
Complete
Partition coefficient n-octanol/water (Log Kow)
Not Measured
Auto-ignition temperature
Not Established
Decomposition temperature
Not Established
Viscosity (cSt)
Not Established
Percent Volatiles (by weight)
20+ (on dilution 99+)

9.2. Other information
No other relevant information.

10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
Keep out of heat > 140F and cold < 30F.

10.5. Incompatible materials
Oxidizers or Reducing Agents

10.6. Hazardous decomposition products
11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapour LD50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LD50, mg/L/4hr</th>
<th>Inhalation Gas LD50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Surfactant - (Proprietary)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>2-methylpentane-2,4-diol - (107-41-5)</td>
<td>3,700.00, Rat - Category: 5</td>
<td>7,892.00, Rabbit - Category: NA</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Window Glass Cleaner Fragrance - (Proprietary)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>tetrahydrofurfuryl alcohol - (97-99-4)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>2</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>2</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

12. Ecological information

12.1. Toxicity
No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Surfactant - (Proprietary)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>2-methylpentane-2,4-diol - (107-41-5)</td>
<td>10,000, Lep. macrochirus</td>
<td>2,800, Cero. reticulata</td>
<td>Not Available</td>
</tr>
<tr>
<td>Window Glass Cleaner Fragrance - (Proprietary)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>tetrahydrofurfuryl alcohol - (97-99-4)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
There is no data available on the preparation itself.
12.3. Bioaccumulative potential
Not Measured

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects
No data available.

13. Disposal considerations

13.1. Waste treatment methods
Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

14. Transport information

<table>
<thead>
<tr>
<th>DOT</th>
<th>IMO/IMDG</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>14.2. UN proper ship. name</td>
<td>Not Regulated</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>DOT Hazard Class: N/A</td>
<td>IMDG: Not Applicable</td>
</tr>
<tr>
<td></td>
<td>DOT Label: ---</td>
<td>Sub Class: Not Applicable</td>
</tr>
<tr>
<td></td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

14.4. Packing group

14.5. Environmental hazards
IMDG Marine Pollutant: No

14.6. Special precautions for user
No further information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not Applicable

15. Regulatory information

EU Legislation
EC/648/2004: For professional or industrial use only, not for sale to the general public.

National Legislation None noted.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:
H227 Combustible liquid.
H301 Toxic if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H360Df May damage the unborn child. Suspected of damaging fertility.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.
R61 May cause harm to the unborn child.
R62 Possible risk of impaired fertility.

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