SAFETY DATA SHEET  
GLASS GUARD

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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>GLASS GUARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal identification</td>
<td>L1551</td>
</tr>
</tbody>
</table>

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

| Identified uses | Glass Treatment |

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Supplier</th>
<th>GARDX INTERNATIONAL LTD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UNIT 7 CLOVELLY BUSINESS PARK</td>
</tr>
<tr>
<td></td>
<td>CLOVELLY ROAD</td>
</tr>
<tr>
<td></td>
<td>SOUTHBOURNE, EMSWORTH</td>
</tr>
<tr>
<td></td>
<td>HANTS</td>
</tr>
<tr>
<td></td>
<td>PO10 8PE</td>
</tr>
<tr>
<td></td>
<td>+44 (0)1243 376426</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:product@gardx.co.uk">product@gardx.co.uk</a></td>
</tr>
</tbody>
</table>

1.4. Emergency telephone number

| Emergency telephone | (24 hrs) +44 (0) 777 8505 330 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Classification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical hazards</td>
<td>Flam. Liq. 2 - H225</td>
</tr>
<tr>
<td>Health hazards</td>
<td>Eye Irrit. 2 - H319 STOT SE 3 - H336</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Not Classified</td>
</tr>
</tbody>
</table>

2.2. Label elements

- Pictogram
- Signal word: Danger
- Hazard statements:
  - H225 Highly flammable liquid and vapour.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
- Precautionary statements:
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P233 Keep container tightly closed.
  - P271 Use only outdoors or in a well-ventilated area.
  - P280 Wear protective gloves, eye and face protection.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with national regulations.
  - P102 Keep out of reach of children.
GLASS GUARD

Contains

PROPAN-2-OL

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPAN-2-OL</td>
<td>60-100%</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>01-2119457558-25-xxxx</td>
</tr>
</tbody>
</table>

**Classification**

- Flam. Liq. 2 - H225
- Eye Irrit. 2 - H319
- STOT SE 3 - H336

**Classification (67/548/EEC or 1999/45/EC)**

- F; R11 Xi; R36 R67

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

**Inhalation**

IF INHALED: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

**Ingestion**

Rinse mouth thoroughly with water. Get medical attention.

**Skin contact**

Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

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

**Inhalation**

Vapours may cause drowsiness and dizziness.

**Ingestion**

May cause discomfort if swallowed.

**Skin contact**

Product has a defatting effect on skin.

**Eye contact**

Causes serious eye irritation.

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

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

**Suitable extinguishing media**

Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.

5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products**

Thermal decomposition or combustion products may include the following substances:

Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

**Protective actions during firefighting**

No specific firefighting precautions known.

SECTION 6: Accidental release measures
GLASS GUARD

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Provide adequate ventilation. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions
Environmental precautions
Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. Contain and absorb spillage with sand, earth or other non-combustible material. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections
Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours. Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store at temperatures between 4°C and 40°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage class
Flammable liquid storage.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits
PROPAN-2-OL
Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³
Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³
WEL = Workplace Exposure Limit

PROPAN-2-OL (CAS: 67-63-0)

DNEL
Industry - Dermal; Long term systemic effects: 888 mg/kg/day
Industry - Inhalation; Long term systemic effects: 500 mg/m³
Consumer - Dermal; Long term systemic effects: 319 mg/kg/day
Consumer - Oral; Long term systemic effects: 26 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 89 mg/m³
GLASS GUARD

- Fresh water; 140.9 mg/l
- Marine water; 140.9 mg/l
- Intermittent release; 140.9 mg/l
- Sediment (Freshwater); 552 mg/kg
- Sediment (Marine water); 552 mg/kg
- STP; 2251 mg/l
- Soil; 28 mg/kg

8.2. Exposure controls

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. For exposure up to 4 hours, wear gloves made of the following material: Rubber (natural, latex). Nitrile rubber. Neoprene. Polyvinyl chloride (PVC). To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Hygiene measures
Wash hands thoroughly after handling.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Alcoholic</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.803 @ 25°C</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Slightly soluble in water.</td>
</tr>
</tbody>
</table>

9.2. Other information
Other information Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions
GLASS GUARD

Possibility of hazardous reactions
Not determined.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials
Materials to avoid
No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products
Hazardous decomposition products
Thermal decomposition or combustion products may include the following substances:
Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation
Vapours may cause drowsiness and dizziness.

Ingestion
Gastrointestinal symptoms, including upset stomach.

Skin contact
Product has a defatting effect on skin.

Eye contact
Causes serious eye irritation.

Toxicological information on ingredients.

**PROPAN-2-OL**

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity oral (LD₅₀ mg/kg)</td>
<td>4,700.0</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>ATE oral (mg/kg)</td>
<td>4,700.0</td>
</tr>
</tbody>
</table>

**SULPHURIC ACID**

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity oral (LD₅₀ mg/kg)</td>
<td>2,140.0</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological Information

Ecotoxicity
The product is not expected to be hazardous to the environment.

Ecological information on ingredients.

**PROPAN-2-OL**


GLASS GUARD

Ecotoxicity

The product is not expected to be toxic to aquatic organisms.

12.1. Toxicity

Acute toxicity - fish
Not determined.

Ecological information on ingredients.

PROPAN-2-OL

Toxicity
Not considered toxic to fish.

Acute toxicity - fish
LC₅₀, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC₅₀, 72 hours: >100 mg/l, Scenedesmus subspicatus
IC₅₀, 72 hours: >100 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability
The product is expected to be biodegradable.

Ecological information on ingredients.

PROPAN-2-OL

Persistence and degradability
The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential
The product is not bioaccumulating.

Ecological information on ingredients.

PROPAN-2-OL

Bioaccumulative potential
The product is not bioaccumulating.

12.4. Mobility in soil

Mobility
The product is insoluble in water.

Ecological information on ingredients.

PROPAN-2-OL

Mobility
The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment
This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

PROPAN-2-OL

Results of PBT and vPvB assessment
This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects
Not determined.
GLASS GUARD

Ecological information on ingredients.

PROPAN-2-OL

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1993
UN No. (IMDG) 1993
UN No. (ICAO) 1993

14.2. UN proper shipping name

Proper shipping name FLAMMABLE LIQUID, N.O.S. (propan-2-ol)

14.3. Transport hazard class(es)

ADR/RID class 3
IMDG class 3
ADN class 3

Transport labels

14.4. Packing group

ADR/RID packing group II
IMDG packing group II
ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
GLASS GUARD

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
National regulations
Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation
Guidance
Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision comments
NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date
17/02/2016
Revision
1.1
Supersedes date
23/11/2015
SDS number
25180

Hazard statements in full
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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.