SAFETY DATA SHEET
ANTI-MIST WINDOW CLEANER

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

1.1. Product identifier
Product name ANTI-MIST WINDOW CLEANER
Internal identification L5276

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Glass cleaner.
Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet
Supplier GARDX INTERNATIONAL LTD
UNIT 7 CLOVELLY BUSINESS PARK
CLOVELLY ROAD
SOUTHBOURNE, EMSWORTH
HANTS
PO10 8PE
+44 (0)1243 376426
product@gardx.co.uk

1.4. Emergency telephone number
Emergency telephone +44 (0) 777 8505 330 (24 hrs).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

2.2. Label elements
Hazard statements EUH208 Contains METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6. May produce an allergic reaction.
Precautionary statements P102 Keep out of reach of children.
P280 Wear protective gloves.
P501 Dispose of contents/ container in accordance with national regulations.
Detergent labelling 5 - < 15% aliphatic hydrocarbons, Contains Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate

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
ANTI-MIST WINDOW CLEANER

<table>
<thead>
<tr>
<th>2-butoxyethanol</th>
<th>5-10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 111-76-2</td>
<td>EC number: 203-905-0</td>
</tr>
</tbody>
</table>

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

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

**General information**
Show this Safety Data Sheet to the medical personnel.

**Inhalation**
Remove person to fresh air and keep comfortable for breathing.

**Ingestion**
Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.

**Skin contact**
Rinse with water. Get medical attention if symptoms are severe or persist after washing.

**Eye contact**
Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if any discomfort continues.

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

**Inhalation**
Coughing, chest tightness, feeling of chest pressure.

**Ingestion**
Gastrointestinal symptoms, including upset stomach.

**Skin contact**
Prolonged and frequent contact may cause redness and irritation. May cause skin sensitisation or allergic reactions in sensitive individuals.

**Eye contact**
May cause discomfort.

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 fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

**Protective actions during firefighting**
No specific firefighting precautions known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
ANTI-MIST WINDOW CLEANER

**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. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

**Environmental precautions**

Do not discharge into drains or watercourses or onto the ground.

**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. Contain and absorb spillage with sand, earth or other non-combustible 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.

**Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet.

**SECTION 7: Handling and storage**

**Usage precautions**

Wear protective gloves. Avoid contact with skin, eyes and clothing. Avoid breathing vapour/spray. Do not reuse empty containers. Do not empty into drains. Do not eat, drink or smoke when using this product. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

Storage precautions: Store at temperatures between 4°C and 40°C.

Storage class: Chemical storage.

**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: Exposure controls/Personal protection**

**Occupational exposure limits**

**2-butoxyethanol**

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m³

Sk, BMGV

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

BMGV = Biological monitoring guidance value.

2-butoxyethanol (CAS: 111-76-2)
ANTI-MIST WINDOW CLEANER

DNEL

Industry - Dermal; Short term systemic effects: 89 mg/kg/day
Industry - Inhalation; Short term systemic effects: 663 mg/m³
Industry - Dermal; Long term systemic effects: 75 mg/kg/day
Industry - Inhalation; Long term systemic effects: 98 mg/m³
Consumer - Dermal; Short term systemic effects: 44.5 mg/kg
Consumer - Inhalation; Short term systemic effects: 426 mg/m³
Consumer - Oral; Short term systemic effects: 13.4 mg/m³
Consumer - Dermal; Long term systemic effects: 38 mg/kg
Consumer - Oral; Long term systemic effects: 3.2 mg/kg
Consumer - Inhalation; Long term systemic effects: 49 mg/kg
Consumer - Inhalation; local effects: 123 mg/kg
Industry - Inhalation; local effects: 246 mg/m³

PNEC

- Fresh water; 8.8 mg/l
- marine water; 0.88 mg/l
- Sediment (Freshwater); 34.6 mg/kg
- Soil; 2.8 mg/kg
- STP; 463 mg/l
- Sediment (Marine water); 3.46

8.2. Exposure controls

Protective equipment

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Tight-fitting safety glasses.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Protective gloves should have a minimum thickness of 0.15 mm. 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. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Rubber (natural, latex).

Hygiene measures

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.
ANTI-MIST WINDOW CLEANER

Respiratory protection
No specific requirements are anticipated under normal conditions of use. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is ‘CE’-marked. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Gas and combination filter cartridges should comply with European Standard EN14387. Particulate filters should comply with European Standard EN143. Disposable filtering half mask respirators should comply with European Standard EN149 or EN405. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2. Organic vapour + dust and mist filter.

Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

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>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Blue</td>
</tr>
<tr>
<td>Odour</td>
<td>Pleasant, agreeable.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH</td>
<td>pH (concentrated solution): 5.5</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Other flammability</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.99 @ 25°C</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>
ANTI-MIST WINDOW CLEANER

Explosive properties
There are no chemical groups present in the product that are associated with explosive properties.

Oxidising properties
There are no chemical groups present in the product that are associated with oxidising properties.

Comments
Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

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
Possibility of hazardous reactions
Not determined.

10.4. Conditions to avoid
Conditions to avoid
There are no known conditions that are likely to result in a hazardous situation.

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
Acute toxicity - oral
ATE oral (mg/kg) 6,665.42

Acute toxicity - dermal
ATE dermal (mg/kg) 14,663.93

Acute toxicity - inhalation
Notes (inhalation LC₅₀) Read-across data. Based on available data the classification criteria are not met.
ATE inhalation (vapours mg/l) 146.64

Skin corrosion/irritation
Read-across data. Conclusive data but not sufficient for classification.

Serious eye damage/irritation
Read-across data. Based on available data the classification criteria are not met.

Respiratory sensitisation
Read-across data. Based on available data the classification criteria are not met.
ANTI-MIST WINDOW CLEANER

Skin sensitisation
Read-across data. Based on available data the classification criteria are not met. May cause an allergic skin reaction.

Germ cell mutagenicity
Genotoxicity - in vitro
Does not contain any substances known to be mutagenic.

Carcinogenicity
Does not contain any substances known to be carcinogenic.

Reproductive toxicity
Reproductive toxicity - fertility
Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure
STOT - single exposure
Read-across data. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure
Read-across data. Based on available data the classification criteria are not met.

Aspiration hazard
Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation
Coughing, chest tightness, feeling of chest pressure.

Ingestion
Gastrointestinal symptoms, including upset stomach.

Skin contact
Prolonged and frequent contact may cause redness and irritation. May cause skin sensitisation or allergic reactions in sensitive individuals.

Eye contact
May cause discomfort.

Acute and chronic health hazards
May cause skin sensitisation or allergic reactions in sensitive individuals. Defatting, drying and cracking of skin.

Route of exposure
Dermal

Target organs
Skin

Medical symptoms
Allergies. Dry skin.

Medical considerations
The following pre-existing or historic medical conditions of the worker may lead to an increased risk of adverse health effects following exposure to this product: Allergies.

Toxicological information on ingredients.

2-butoxyethanol

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Value (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - oral</td>
<td>500.0</td>
</tr>
<tr>
<td>Acute toxicity - dermal</td>
<td>1,100.0</td>
</tr>
<tr>
<td>Notes (inhalation LC₅₀)</td>
<td>11.0</td>
</tr>
</tbody>
</table>
ANTI-MIST WINDOW CLEANER

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 53.0
Species Rat
Notes (oral LD₅₀) Estimated value.
ATE oral (mg/kg) 53.0
Acute toxicity - dermal
ATE dermal (mg/kg) 300.0
Acute toxicity - inhalation
ATE inhalation (vapours mg/l) 3.0
Skin sensitisation
Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Acute aquatic toxicity
Acute toxicity - fish Not determined.

Chronic aquatic toxicity
Chronic toxicity - fish early life stage Not determined.

Ecological information on ingredients.

2-butoxyethanol

Acute aquatic toxicity
LC₅₀, 96 hours: 820 - 1490 mg/l, Fish
EC₅₀, 48 hours: 835 - 1550 mg/l, Daphnia magna
IC₅₀, 72 hours: 1840 mg/l, Algae

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

Acute aquatic toxicity
LE(C)₅₀ 0.001 < L(E)C₅₀ ≤ 0.01
M factor (Acute) 100
Acute toxicity - fish Estimated value.
LC₅₀, 96 hours: 13 mg/l, Fish

Chronic aquatic toxicity
ANTI-MIST WINDOW CLEANER

NOEC: 0.0001 < NOEC ≤ 0.001

Degradability: Non-rapidly degradable

M factor (Chronic): 100

12.2. Persistence and degradability

Persistence and degradability: The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: The product does not contain any substances expected to be bioaccumulating.

Partition coefficient: Not determined.

12.4. Mobility in soil

Mobility: 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.

12.6. Other adverse effects

Other adverse effects: Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods: Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

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

Special Provisions note

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant: No.

14.6. Special precautions for user

Not applicable.
ANTI-MIST WINDOW CLEANER

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
EC₅₀: 50% of maximal Effective Concentration.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
NOEC: No Observed Effect Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
UN: United Nations.
vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms
Acute Tox. = Acute toxicity
Eye Dam. = Serious eye damage
Eye Irrit. = Eye irritation
Skin Corr. = Skin corrosion
Skin Irrit. = Skin irritation
Skin Sens. = Skin sensitisation
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Revision comments
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 22/07/2020
Revision 1.1
Supersedes date 20/02/2020
SDS number 29627
ANTI-MIST WINDOW CLEANER

Hazard statements in full

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
EUH208 Contains METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6. May produce an allergic reaction.

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.