SECTION 1: Identification

1.1 Product identifier
   Trade name: Armor All Auto Glass Cleaner Pump Rd 24/4fo
   Alternative number(s): 070612183934

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Relevant identified uses: General use

1.3 Details of the supplier of the safety data sheet
   Energizer Manufacturing, Inc.
   25225 Detroit Rd.
   Westlake OH 44145
   United States
   Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)
   Website: http://data.energizer.com
   Energizer Trading Ltd.
   Sword House, Totteridge Road, High Wycombe, HP13 6DG, UK
   Telephone: +44(0)8000353376
   e-mail: ConsumerServiceEU@energizer.com

1.4 Emergency telephone number
   This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture
   Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)
<table>
<thead>
<tr>
<th>Section</th>
<th>Hazard class</th>
<th>Category</th>
<th>Hazard class and category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.6</td>
<td>flammable liquid</td>
<td>3</td>
<td>Flam. Liq. 3</td>
<td>H226</td>
</tr>
</tbody>
</table>

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements
   Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)
   - Signal word: warning
- **Pictograms**
  
  GHS02

- **Hazard statements**
  
  H226  Flammable liquid and vapor.

- **Precautionary statements**
  
  P101  If medical advice is needed, have product container or label at hand.
  P102  Keep out of reach of children.
  P103  Read label before use.
  P210  Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  P233  Keep container tightly closed.
  P240  Ground/bond container and receiving equipment.
  P241  Use explosion-proof electrical/ventilating/lighting equipment.
  P242  Use only non-sparking tools.
  P243  Take precautionary measures against static discharge.
  P280  Wear protective gloves/eye protection/face protection.
  P303+P361+P353  If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  P370+P378  In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
  P403+P235  Store in a well-ventilated place. Keep cool.
  P501  Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not relevant (mixture)

**3.2 Mixtures**

Description of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>Wt%</th>
<th>Classification acc. to GHS</th>
<th>Pictograms</th>
</tr>
</thead>
</table>
| 1-butoxypropan-2-ol     | CAS No 5131-66-8 | 1 – < 5 | Skin Irrit. 2 / H315  
|                         |                |      | Eye Irrit. 2 / H319   
|                         |                |      | Flam. Liq. 3 / H226 |

For full text of abbreviations: see SECTION 16.
SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes
Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation
If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact
Wash with plenty of soap and water.

Following eye contact
Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion
Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed
none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media
Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media
Water jet

5.2 Special hazards arising from the substance or mixture
In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products
Nitrogen oxides (NOx)

5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   - For non-emergency personnel
     - Remove persons to safety.
   - For emergency responders
     - Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions
   - Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up
   - Advice on how to contain a spill
     - Covering of drains
   - Advice on how to clean up a spill
     - Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder
   - Appropriate containment techniques
     - Use of adsorbent materials.
   - Other information relating to spills and releases
     - Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling
   - Recommendations
     - Measures to prevent fire as well as aerosol and dust generation
       - Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.
     - Specific notes/details
       - Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.
   - Advice on general occupational hygiene
     - Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.
7.2 **Conditions for safe storage, including any incompatibilities**

Managing of associated risks

- **Explosive atmospheres**
  
  Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- **Flammability hazards**
  
  Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

Control of the effects

Protect against external exposure, such as Frost

- **Ventilation requirements**
  
  Use local and general ventilation. Ground/bond container and receiving equipment.

- **Packaging compatibilities**
  
  Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 **Specific end use(s)**

See section 16 for a general overview.

### SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

This information is not available.

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>End-point</th>
<th>Threshold level</th>
<th>Protection goal, route of exposure</th>
<th>Used in</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-butoxypropan-2-ol</td>
<td>5131-66-8</td>
<td>DNEL</td>
<td>147 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>1-butoxypropan-2-ol</td>
<td>5131-66-8</td>
<td>DNEL</td>
<td>52 mg/kg bw/day</td>
<td>human, dermal</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>End-point</th>
<th>Threshold level</th>
<th>Organism</th>
<th>Environmental compartment</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-butoxypropan-2-ol</td>
<td>5131-66-8</td>
<td>PNEC</td>
<td>0.525 mg/l</td>
<td>aquatic organisms</td>
<td>freshwater</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>1-butoxypropan-2-ol</td>
<td>5131-66-8</td>
<td>PNEC</td>
<td>0.052 mg/l</td>
<td>aquatic organisms</td>
<td>marine water</td>
<td>short-term (single instance)</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.
### Section 9: Physical and Chemical Properties

#### 9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
</tr>
<tr>
<td>Physical State</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>various</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>Other Safety Parameters</td>
<td></td>
</tr>
<tr>
<td>pH (value)</td>
<td>not determined</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>&lt;-85 °C</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range</td>
<td>100 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>59.5 °C at 1,013 hPa</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>not determined</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>not relevant, (fluid)</td>
</tr>
<tr>
<td>Explosive Limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>1.05 mmHg at 25 °C</td>
</tr>
<tr>
<td>Density</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>this information is not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>information on this property is not available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>not determined</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td></td>
</tr>
<tr>
<td>- n-octanol/water (log KOW)</td>
<td>this information is not available</td>
</tr>
</tbody>
</table>
SECTION 10: Stability and reactivity

10.1 Reactivity
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:
Risk of ignition

10.2 Chemical stability
See below "Conditions to avoid".

10.3 Possibility of hazardous reactions
No known hazardous reactions.

10.4 Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion
Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials
There is no additional information.

10.6 Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.
SECTION 11: Toxicological information

11.1 Information on toxicological effects
Test data are not available for the complete mixture.

Classification procedure
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity
Shall not be classified as acutely toxic.

Skin corrosion/irritation
Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation
Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization
Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity
Shall not be classified as germ cell mutagenic.

Carcinogenicity
Shall not be classified as carcinogenic.

Reproductive toxicity
Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure
Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure
Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity
Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability
Data are not available.

12.3 Bioaccumulative potential
Data are not available.
12.4 Mobility in soil
Data are not available.

12.5 Results of PBT and vPvB assessment
Data are not available.

12.6 Other adverse effects
Endocrine disrupting potential
None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Waste treatment-relevant information
Solvent reclamation/regeneration.

Sewage disposal-relevant information
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages
Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks
Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number
1993

14.2 UN proper shipping name
Flammable liquid, n.o.s.

Technical name (hazardous ingredients)
1-butoxypropan-2-ol, dipentene

14.3 Transport hazard class(es)
Class 3 (flammable liquids)

14.4 Packing group
III (substance presenting low danger)

14.5 Environmental hazards
non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user
There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.
### Information for each of the UN Model Regulations

#### DOT

**Transport of dangerous goods by road or rail (49 CFR US DOT)**

<table>
<thead>
<tr>
<th>Index number</th>
<th>Proper shipping name</th>
<th>- Particulars in the shipper's declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1993</td>
<td>Flammable liquid, n.o.s.</td>
<td>UN1993, Flammable liquid, n.o.s., (1-butoxypropan-2-ol, dipentene, solution), 3, III</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class</th>
<th>Packing group</th>
<th>Danger label(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>III</td>
<td>3</td>
</tr>
</tbody>
</table>

**Special provisions (SP)**

- B1, B52, IB3, T4, TP1, TP29

**ERG No**

- 128

#### International Maritime Dangerous Goods Code (IMDG)

<table>
<thead>
<tr>
<th>UN number</th>
<th>Proper shipping name</th>
<th>- Particulars in the shipper's declaration</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Class</th>
<th>Marine pollutant</th>
<th>Packing group</th>
<th>Danger label(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>-</td>
<td>III</td>
<td>3</td>
</tr>
</tbody>
</table>

**Special provisions (SP)**

- 223, 274, 955

**Excepted quantities (EQ)**

- E1

**Limited quantities (LQ)**

- 5 L

**EmS**

- F-E, S-E

**Stowage category**

- A
International Civil Aviation Organization (ICAO-IATA/DGR)
UN number 1993
Proper shipping name Flammable liquid, n.o.s.
- Particulars in the shipper's declaration UN1993, Flammable liquid, n.o.s., (1-butoxypropan-2-ol, dipentene, solution), 3, III
Class 3
Packing group III
Danger label(s) 3

Special provisions (SP) A3
Excepted quantities (EQ) E1
Limited quantities (LQ) 10 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)
Superfund Amendment and Reauthorization Act (SARA TITLE III)
- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)
  none of the ingredients are listed

Clean Air Act
  none of the ingredients are listed

Right to Know Hazardous Substance List
- Cleaning Product Right to Know Act Substance List (CA-RTK)

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Name acc. to inventory</th>
<th>CAS No</th>
<th>Functionality</th>
<th>Authoritative Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Butoxypropan-2-ol</td>
<td></td>
<td>5131-66-8</td>
<td>solvents</td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>Isopropanol</td>
<td>67-63-0</td>
<td></td>
<td>OEHHA RELs</td>
</tr>
<tr>
<td>Propylene Glycol 2-Butyl Ether</td>
<td></td>
<td>15821-83-7</td>
<td>solvents</td>
<td></td>
</tr>
<tr>
<td>Disodium Lauryl Phenyl Ether Disulfonate</td>
<td></td>
<td>119345-04-9</td>
<td>cleaning agent</td>
<td></td>
</tr>
<tr>
<td>2-Aminoethanol</td>
<td></td>
<td>141-43-5</td>
<td>pH Adjuster</td>
<td></td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td></td>
<td>7757-82-6</td>
<td>filler</td>
<td></td>
</tr>
</tbody>
</table>
## Armor All Auto Glass Cleaner Pump Rd 24/4fo

### Toxic or Hazardous Substance List (MA-TURA)

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Name acc. to inventory</th>
<th>CAS No.</th>
<th>Functional-</th>
<th>Authoritative Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipentene</td>
<td>d-Limonene</td>
<td>5989-27-5</td>
<td></td>
<td>EU Fragrance Allergens</td>
</tr>
<tr>
<td>Benzyl salicylate</td>
<td>Benzyl salicylate</td>
<td>118-58-1</td>
<td></td>
<td>EU Fragrance Allergens</td>
</tr>
<tr>
<td>Diethanolamine</td>
<td>Diethanolamine</td>
<td>111-42-2</td>
<td></td>
<td>CA TACs, IARC Carcinogens - 2B, OEHHA RELs, Prop 65</td>
</tr>
<tr>
<td>Linalool</td>
<td>Linalool</td>
<td>78-70-6</td>
<td></td>
<td>EU Fragrance Allergens</td>
</tr>
<tr>
<td>Hexyl cinnamaldehyde</td>
<td>Hexyl cinnam-aldehyde</td>
<td>101-86-0</td>
<td></td>
<td>EU Fragrance Allergens</td>
</tr>
<tr>
<td>Cyclamal</td>
<td></td>
<td>103-95-7</td>
<td>fragrance</td>
<td></td>
</tr>
<tr>
<td>Citronellol</td>
<td>Citronellol</td>
<td>106-22-9</td>
<td></td>
<td>EU Fragrance Allergens</td>
</tr>
<tr>
<td>Amyl cinnamal</td>
<td>Amyl cinnamal</td>
<td>122-40-7</td>
<td></td>
<td>EU Fragrance Allergens</td>
</tr>
<tr>
<td>Dorisyl</td>
<td></td>
<td>32210-23-4</td>
<td>fragrance</td>
<td></td>
</tr>
<tr>
<td>Pentyl salicylate</td>
<td></td>
<td>2050-08-0</td>
<td>fragrance</td>
<td></td>
</tr>
<tr>
<td>Lilial</td>
<td>2-(4-tert-Butylbenzyl) propionaldehyde</td>
<td>80-54-6</td>
<td></td>
<td>EU Fragrance Allergens</td>
</tr>
<tr>
<td>Geraniol</td>
<td>Geraniol</td>
<td>106-24-1</td>
<td></td>
<td>EU Fragrance Allergens</td>
</tr>
<tr>
<td>Coumarin</td>
<td>Coumarin</td>
<td>91-64-5</td>
<td></td>
<td>EU Fragrance Allergens</td>
</tr>
<tr>
<td>Isoeugenol</td>
<td>Isoeugenol</td>
<td>97-54-1</td>
<td>fragrance</td>
<td>EU Fragrance Allergens</td>
</tr>
<tr>
<td>Aldehyde C-11</td>
<td></td>
<td>112-45-8</td>
<td>fragrance</td>
<td></td>
</tr>
</tbody>
</table>

- Hazardous Substance List (NJ-RTK)

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Name acc. to inventory</th>
<th>CAS No.</th>
<th>Remarks</th>
<th>Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>isopropyl alcohol</td>
<td>Isopropyl alcohol (mfg-strong acid process)</td>
<td>67-63-0</td>
<td></td>
<td>F3</td>
</tr>
</tbody>
</table>

**Legend**
- **F3**: Flammable - Third Degree
Armor All Auto Glass Cleaner Pump Rd 24/4fo

Version number: 1.0
Date of compilation: 2020-11-18

- Hazardous Substance List (Chapter 323) (PA-RTK)

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Name acc. to inventory</th>
<th>CAS No</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>isopropyl alcohol</td>
<td>2-PROPANOL</td>
<td>67-63-0</td>
<td>E</td>
</tr>
</tbody>
</table>

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Name acc. to inventory</th>
<th>CAS No</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>isopropyl alcohol</td>
<td>isopropyl alcohol</td>
<td>67-63-0</td>
<td>T, F</td>
</tr>
</tbody>
</table>

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

<table>
<thead>
<tr>
<th>Name acc. to inventory</th>
<th>CAS No</th>
<th>Remarks</th>
<th>Type of the toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethanolamine</td>
<td>111-42-2</td>
<td></td>
<td>cancer</td>
</tr>
</tbody>
</table>

Industry or sector specific available guidance(s)

NPCCA-HMIS® III

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic</td>
<td>*</td>
<td>chronic (long-term) health effects may result from repeated overexposure</td>
</tr>
<tr>
<td>Health</td>
<td>0</td>
<td>no significant risk to health</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
<td>material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur</td>
</tr>
<tr>
<td>Physical hazard</td>
<td>0</td>
<td>material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive</td>
</tr>
<tr>
<td>Personal protection</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

NFPA® 704
# Armor All Auto Glass Cleaner Pump Rd 24/4fo

**Category** | **Degree of hazard** | **Description**
--- | --- | ---
Flammability | 2 | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health | 0 | material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability | 0 | material that is normally stable, even under fire conditions
Special hazard

## National inventories

<table>
<thead>
<tr>
<th>Country</th>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU</td>
<td>AICS</td>
<td>not all ingredients are listed</td>
</tr>
<tr>
<td>CA</td>
<td>DSL</td>
<td>not all ingredients are listed</td>
</tr>
<tr>
<td>CN</td>
<td>IECSC</td>
<td>all ingredients are listed</td>
</tr>
<tr>
<td>EU</td>
<td>ECSI</td>
<td>not all ingredients are listed</td>
</tr>
<tr>
<td>EU</td>
<td>REACH Reg.</td>
<td>not all ingredients are listed</td>
</tr>
<tr>
<td>JP</td>
<td>CSCL-ENCS</td>
<td>not all ingredients are listed</td>
</tr>
<tr>
<td>JP</td>
<td>ISHA-ENCS</td>
<td>not all ingredients are listed</td>
</tr>
<tr>
<td>KR</td>
<td>KECI</td>
<td>not all ingredients are listed</td>
</tr>
<tr>
<td>MX</td>
<td>INSQ</td>
<td>not all ingredients are listed</td>
</tr>
<tr>
<td>NZ</td>
<td>NZIoC</td>
<td>all ingredients are listed</td>
</tr>
<tr>
<td>PH</td>
<td>PICCS</td>
<td>all ingredients are listed</td>
</tr>
<tr>
<td>TR</td>
<td>CICR</td>
<td>not all ingredients are listed</td>
</tr>
<tr>
<td>TW</td>
<td>TCSI</td>
<td>all ingredients are listed</td>
</tr>
<tr>
<td>US</td>
<td>TSCA</td>
<td>not all ingredients are listed</td>
</tr>
</tbody>
</table>

**Legend**

- AICS: Australian Inventory of Chemical Substances
- CICR: Chemical Inventory and Control Regulation
- CSCL-ENCS: List of Existing and New Chemical Substances (CSCL-ENCS)
- DSL: Domestic Substances List (DSL)
- ECSI: EC Substance Inventory (EINECS, ELINCS, NLP)
- IECSC: Inventory of Existing Chemical Substances Produced or Imported in China
- INSQ: National Inventory of Chemical Substances
- ISHA-ENCS: Inventory of Existing Chemical Substances Produced or Imported in China
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- REACH Reg.: REACH registered substances
- TCSI: Taiwan Chemical Substance Inventory
- TSCA: Toxic Substance Control Act
## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information, including date of preparation or last revision

**Abbreviations and acronyms**

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>49 CFR US DOT</td>
<td>49 CFR U.S. Department of Transportation</td>
</tr>
<tr>
<td>ACGIH®</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)</td>
</tr>
<tr>
<td>DEP CODE</td>
<td>Department of Environmental Protection Code</td>
</tr>
<tr>
<td>DGR</td>
<td>Dangerous Goods Regulations (see IATA/DGR)</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No-Effect Level</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation (USA)</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>EmS</td>
<td>Emergency Schedule</td>
</tr>
<tr>
<td>ERG No</td>
<td>Emergency Response Guidebook - Number</td>
</tr>
<tr>
<td>Eye Dam.</td>
<td>Seriously damaging to the eye</td>
</tr>
<tr>
<td>Eye Irrit.</td>
<td>Irritant to the eye</td>
</tr>
<tr>
<td>Flam. Liq.</td>
<td>Flammable liquid</td>
</tr>
<tr>
<td>GHS</td>
<td>&quot;Globally Harmonized System of Classification and Labelling of Chemicals&quot; developed by the United Nations</td>
</tr>
<tr>
<td>HHS</td>
<td>Higher hazard substance</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IATA/DGR</td>
<td>Dangerous Goods Regulations (DGR) for the air transport (IATA)</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td>LHS</td>
<td>Lower hazard substance</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships (abbr. of &quot;Marine Pollutant&quot;)</td>
</tr>
<tr>
<td>NFPA®</td>
<td>National Fire Protection Association (United States)</td>
</tr>
<tr>
<td>NLP</td>
<td>No-Longer Polymer</td>
</tr>
</tbody>
</table>
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Key literature references and sources for data

Classification procedure
Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H226</td>
<td>Flammable liquid and vapor.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>