1. Identification

Product identifier: Uvex Clear Solution
Other means of identification:
  Product code: S461, S463, S464, S467
Recommended use: Lens cleaning solution.
Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information
Company name: Honeywell Safety Products USA, Inc
Address: 10 Thurber Blvd, Smithfield, RI 02917
Telephone: +1-800-873-5242
Contact Person: hsptechsupport@honeywell.com
E-mail: msds@chemtrec.com
Emergency telephone number: +1-703-741-5500 for USA/Canada

2. Hazard(s) identification

Physical hazards: Not classified.
Health hazards: Not classified.
OSHA defined hazards: Not classified.

Label elements
  Hazard symbol: None.
  Signal word: None.
  Hazard statement: The mixture does not meet the criteria for classification.

Precautionary statement
  Prevention: Observe good industrial hygiene practices.
  Response: Wash hands after handling.
  Storage: Store away from incompatible materials.
  Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC): None known.

Supplemental information: None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>&lt;6</td>
</tr>
<tr>
<td>Sodium Lauryl Ether Sulfate</td>
<td>68585-34-2</td>
<td>&lt;2</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.
Skin contact: Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact: Remove contact lenses. Get medical attention promptly if symptoms occur after flushing.
Ingestion: Seek medical advice.
Most important symptoms/effects, acute and delayed
Indication of immediate medical attention and special treatment needed
General information

No specific symptoms noted.
Treat symptomatically.
In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. Fire-fighting measures
Suitable extinguishing media
Unsuitable extinguishing media
Specific hazards arising from the chemical
Special protective equipment and precautions for firefighters
Fire fighting equipment/instructions
General fire hazards

No restrictions known.
None.
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Self-contained breathing apparatus operated in positive pressure mode and full protective clothing must be worn in case of fire.
No unusual fire or explosion hazards noted.

6. Accidental release measures
Personal precautions, protective equipment and emergency procedures
Methods and materials for containment and cleaning up
Environmental precautions

For industrial use, wear appropriate personal protective equipment (See Section 8).
Stop leak if you can do so safely. Absorb spill with appropriate sand, clay or other inert sorbent material, then place in appropriate waste container.
Large Spills: Flush area with water. Treat runoff per applicable environmental regulations pertaining to drains, water courses and ground water, diking if required.
Treat discharge into drains, water courses or onto the ground according to applicable regulations.

7. Handling and storage
Precautions for safe handling
Conditions for safe storage, including any incompatibilities

Observe good industrial hygiene practices. Avoid inhalation of vapors and contact with skin and eyes.
Keep container closed. Store away from incompatible materials. Do not allow material to freeze.
Keep at temperature not exceeding 43°C / 110°F.

8. Exposure controls/personal protection
Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>PEL</td>
<td>240 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>24 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 ppm</td>
</tr>
</tbody>
</table>
Biological limit values

ACGIH Biological Exposure Indices

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>200 mg/g</td>
<td>Butoxyacetic acid (BAA), with hydrolysis</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

Exposure guidelines

No exposure standards allocated.

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.

US - Tennessee OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

Appropriate engineering controls

Not required.

Individual protection measures, such as personal protective equipment

Eye/face protection

None under normal conditions.

Skin protection

Hand protection

Chemical resistant gloves are recommended.

Other

None under normal working conditions.

Respiratory protection

Not normally needed.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

9. Physical and chemical properties

Appearance

Clear tinted liquid.

Physical state

Liquid.

Form

Liquid.

Color

Clear tinted.

Odor

Slight odor.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

212 °F (100 °C)

Flash point

> 212.0 °F (> 100.0 °C)

Evaporation rate

< 1 (Butyl acetate=1)

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

22 mm Hg (20°C/68°F)

Vapor density

Not available.
Relative density 0.98

Solubility (water) Completely soluble in water.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

Reactivity Stable at normal conditions.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Contact with incompatible materials. Freezing. Elevated temperatures.

Incompatible materials Strong oxidizers, strong acids, and strong bases.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact Prolonged or repeated contact may dry skin and cause irritation.

Eye contact May cause temporary eye irritation.

Ingestion No harmful effects expected in amounts likely to be ingested by accident.

Symptoms related to the physical, chemical and toxicological characteristics May cause discomfort if swallowed.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritation Prolonged or repeated contact may dry skin and cause irritation.

Serious eye damage/eye irritation May cause temporary eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization Not a skin sensitizer.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not classified.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not classified.

Chronic effects Not classified.

Further information No other specific acute or chronic health impact noted.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability
The product is not expected to bioaccumulate.

Bioaccumulative potential
The product is not expected to bioaccumulate.

**Partition coefficient n-octanol / water (log Kow)**

2-Butoxyethanol (CAS 111-76-2) 0.83

Mobility in soil
The product is completely soluble in water.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**
Dispose in accordance with all applicable regulations. Do not allow runoff to sewer, waterway or ground.

**Hazardous waste code**
Waste codes should be assigned by the user based on the application for which the product was used.

**Waste from residues / unused products**
Dispose of in accordance with local regulations.

**Contaminated packaging**
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

**DOT**
Not regulated as dangerous goods.

**IATA**
Not regulated as dangerous goods.

**IMDG**
Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not applicable.

15. Regulatory information

**US federal regulations**
This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
Not regulated.

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**
2-Butoxyethanol (CAS 111-76-2) LISTED

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**
Not listed.

**SARA 311/312 Hazardous chemical**
No

**SARA 313 (TRI reporting)**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>&lt;6</td>
</tr>
</tbody>
</table>

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**
Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
Not regulated.
Safe Drinking Water Act (SDWA)  
Not regulated.

US state regulations  
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US. Massachusetts RTK - Substance List**  
2-Butoxyethanol (CAS 111-76-2)

**US. New Jersey Worker and Community Right-to-Know Act**  
2-Butoxyethanol (CAS 111-76-2)

**US. Pennsylvania Worker and Community Right-to-Know Law**  
2-Butoxyethanol (CAS 111-76-2)

**US. Rhode Island RTK**  
2-Butoxyethanol (CAS 111-76-2)

**US. California Proposition 65**  
Not Listed.

**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

**Issue date** 06-July-2015

**Revision date** -

**Version #** 01

**Further information**  
The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**NFPA ratings**

[![NFPA ratings](image)](image)

**List of abbreviations**

<table>
<thead>
<tr>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>EPA: Acquire database</td>
</tr>
<tr>
<td>NLM: Hazardous Substances Data Base</td>
</tr>
<tr>
<td>US. IARC Monographs on Occupational Exposures to Chemical Agents</td>
</tr>
<tr>
<td>National Toxicology Program (NTP) Report on Carcinogens</td>
</tr>
<tr>
<td>ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices</td>
</tr>
<tr>
<td>ESIS (European chemical Substances Information System)</td>
</tr>
<tr>
<td>HSDB® - Hazardous Substances Data Bank</td>
</tr>
<tr>
<td>IARC Monographs. Overall Evaluation of Carcinogenicity</td>
</tr>
</tbody>
</table>

**Disclaimer**  
This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.