SECTION 1: Identification

1.1. Identification

Product form: Mixtures
Product name: Challenger PC-737
Product code: 737

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Sunnyside Corp
225 Carpenter Ave
Wheeling, IL 60090 - USA
T 800-323-8611 - F 847-541-9043
orders@sunnysidecorp.com - www.sunnysidecorp.com

1.4. Emergency telephone number

No additional information available

<table>
<thead>
<tr>
<th>Country</th>
<th>Organization/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>Chemtrec</td>
<td></td>
<td>1-800-424-9300</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin corrosion/irritation Category 1A: Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1: Causes serious eye damage

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US):

- GHS05

Signal word (GHS-US): Danger
Hazard statements (GHS-US):
- Causes severe skin burns and eye damage
- Causes serious eye damage
Precautionary statements (GHS-US):
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash hands, forearms and face thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- If swallowed: rinse mouth. Do NOT induce vomiting
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- If inhaled: Remove person to fresh air and keep comfortable for breathing
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a poison center/doctor/…
- Specific treatment (see … on this label)
- Wash contaminated clothing before reuse
- Store locked up
- Dispose of contents/container to …

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable
SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>butyl glycolether</td>
<td>(CAS-No.) 111-76-2</td>
<td>&lt; 10</td>
<td>Flam. Liq. 4, H227, Acute Tox. 4 (Oral), H302, Acute Tox. 3 (Dermal), H311, Acute Tox. 4 (Inhalation), H332, Skin Irrit. 2, H315, Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>potassium hydroxide</td>
<td>(CAS-No.) 1310-58-3</td>
<td>&lt; 10</td>
<td>Acute Tox. 4 (Oral), H302, Skin Corr. 1A, H314, Eye Dam. 1, H318, Aquatic Acute 3, H402</td>
</tr>
<tr>
<td>tetrapotassium pyrophosphate, anhydrous</td>
<td>(CAS-No.) 7320-34-5</td>
<td>&lt; 10</td>
<td>Skin Irrit. 2, H315, Eye Irrit. 2, H319</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general: Call a physician immediately.
First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion: Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact: Burns.
Symptoms/effects after eye contact: Serious damage to eyes.
Symptoms/effects after ingestion: Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


5.2. Specific hazards arising from the chemical

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:
Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.

Hygiene measures:
Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:
Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical</th>
<th>ACGIH Ceiling (mg/m³)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium hydroxide (1310-58-3)</td>
<td>2 mg/m³ (Potassium hydroxide; USA; Momentary value; TLV - Adopted Value)</td>
<td></td>
</tr>
<tr>
<td>tetrapotassium pyrophosphate, anhydrous (7320-34-5)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>butyl glycolether (111-76-2)</td>
<td>20 ppm (2-Butoxyethanol (EGBE); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Environmental exposure controls:
Avoid release to the environment.

8.3. Individual protection measures/Personal protection equipment

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

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>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Mixture contains one or more component(s) which have the following colour(s): Colourless White White to light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour(s): Pleasant odour Sweet odour Mild odour Odourless Ether-like odour</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
Freezing point: No data available
Boiling point: No data available
Flash point: > 200 °F
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): Not applicable.
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: No data available
Solubility: No data available
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 oral rat (mg/kg)</th>
<th>LD50 dermal rabbit (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium hydroxide (1310-58-3)</td>
<td>333 mg/kg (Rat; Equivalent or similar to OECD 425; Experimental value)</td>
<td>&gt; 4640 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>333.000 mg/kg body weight</td>
<td></td>
</tr>
<tr>
<td>tetrapotassium pyrophosphate, anhydrous (7320-34-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)</td>
<td></td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>435 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity; 435 mg/kg body weight; Rabbit; Weight of evidence; Equivalent or similar to OECD 402)</td>
<td></td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>2.17 mg/l/4h (Rat; Experimental value; 2.35 mg/l/4h; Rat; Experimental value)</td>
<td></td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>450-486,Rat; Weight of evidence</td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>500.000 mg/kg body weight</td>
<td></td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>435.000 mg/kg body weight</td>
<td></td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>4500.000 ppmV/4h</td>
<td></td>
</tr>
</tbody>
</table>
**butyl glycolether (111-76-2)**

| ATE US (vapors) | 2.170 mg/l/4h |
| ATE US (dust, mist) | 2.170 mg/l/4h |

Skin corrosion/irritation: Causes severe skin burns and eye damage.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

**IARC group**

| 3 - Not classifiable

**Reproductive toxicity**

| Not classified

Specific target organ toxicity – single exposure: Not classified
Specific target organ toxicity – repeated exposure: Not classified

Aspiration hazard: Not classified
Symptoms/effects after skin contact: Burns.
Symptoms/effects after eye contact: Serious damage to eyes.
Symptoms/effects after ingestion: Burns.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecology - general: Before neutralisation, the product may represent a danger to aquatic organisms.

**potassium hydroxide (1310-58-3)**

| LC50 fish 2 | 80 mg/l (LC50; 96 h; Gambusia affinis; Static system; Fresh water) |

**tetrapotassium pyrophosphate, anhydrous (7320-34-5)**

| LC50 fish 1 | > 750 mg/l (LC50; 48 h) |

**12.2. Persistence and degradability**

**potassium hydroxide (1310-58-3)**

Persistence and degradability: Biodegradability: not applicable.
Biochemical oxygen demand (BOD): Not applicable
Chemical oxygen demand (COD): Not applicable
ThOD: Not applicable

**tetrapotassium pyrophosphate, anhydrous (7320-34-5)**

Persistence and degradability: Biodegradability: not applicable.
Biochemical oxygen demand (BOD): Not applicable
Chemical oxygen demand (COD): Not applicable
ThOD: Not applicable

**butyl glycolether (111-76-2)**

Biochemical oxygen demand (BOD): 0.71 g O₂/g substance
Chemical oxygen demand (COD): 2.2 g O₂/g substance
ThOD: 2.305 g O₂/g substance
BOD (% of ThOD): 0.31

**12.3. Bioaccumulative potential**

**potassium hydroxide (1310-58-3)**

Bioaccumulative potential: Bioaccumulation: not applicable.
**Challenger PC-737**  
**Safety Data Sheet**

---

### tetrapotassium pyrophosphate, anhydrous (7320-34-5)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

### butyl glycolether (111-76-2)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>0.81 (Experimental value; BASF test; 25 °C)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

### butyl glycolether (111-76-2)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension</td>
<td>0.027 N/m (25 °C)</td>
</tr>
</tbody>
</table>

#### 12.5. Other adverse effects

- **Effect on the global warming**: No known effects from this product.
- **GWPmix comment**: No known effects from this product.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

- **Waste treatment methods**: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

- **In accordance with DOT**
- **Transport document description**: UN1814 Potassium hydroxide, solution, 8, III
- **UN-No.(DOT)**: UN1814
- **Proper Shipping Name (DOT)**: Potassium hydroxide, solution
- **Class (DOT)**: 8 - Class 8 - Corrosive material 49 CFR 173.136
- **Packing group (DOT)**: III - Minor Danger
- **Hazard labels (DOT)**: 8 - Corrosive

<table>
<thead>
<tr>
<th>DOT Packaging Non Bulk (49 CFR 173.xxx)</th>
<th>203</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Packaging Bulk (49 CFR 173.xxx)</td>
<td>241</td>
</tr>
<tr>
<td>DOT Special Provisions (49 CFR 172.102)</td>
<td>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal............. 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.</td>
</tr>
<tr>
<td>DOT Packaging Exceptions (49 CFR 173.xxx)</td>
<td>154</td>
</tr>
<tr>
<td>DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)</td>
<td>5 L</td>
</tr>
<tr>
<td>DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)</td>
<td>60 L</td>
</tr>
<tr>
<td>DOT Vessel Stowage Location</td>
<td>A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.</td>
</tr>
<tr>
<td>DOT Vessel Stowage Other</td>
<td>52 - Stow “separated from” acids</td>
</tr>
<tr>
<td>Emergency Response Guide (ERG) Number</td>
<td>154</td>
</tr>
<tr>
<td>Other information</td>
<td>No supplementary information available.</td>
</tr>
</tbody>
</table>

**Transportation of Dangerous Goods**

Not applicable

05/05/2017

EN (English US)
Transport by sea
Not regulated

Air transport
Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Inventory Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium hydroxide (1310-58-3)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td></td>
<td>Not subject to reporting requirements of the United States SARA Section 313</td>
</tr>
<tr>
<td></td>
<td>CERCLA RQ 1000 lb</td>
</tr>
<tr>
<td>tetrapotassium pyrophosphate, anhydrous (7320-34-5)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>butyl glycolether (111-76-2)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

15.2. International regulations

CANADA

<table>
<thead>
<tr>
<th>Substance</th>
<th>Inventory Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium hydroxide (1310-58-3)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
<tr>
<td>tetrapotassium pyrophosphate, anhydrous (7320-34-5)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
<tr>
<td>butyl glycolether (111-76-2)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
</tbody>
</table>

EU-Regulations
No additional information available

National regulations
No additional information available

15.3. US State regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium hydroxide (1310-58-3)</td>
<td>U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities</td>
</tr>
<tr>
<td></td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td></td>
<td>U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td>butyl glycolether (111-76-2)</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td></td>
<td>U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Revision date : 05/05/2017
### Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H227</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life</td>
</tr>
</tbody>
</table>

---

**SDS US (GHS HazCom 2012)**

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*