SECTION 1: Identification

1.1. Identification

Product name: POTASSIUM 2-METHYL-2-BUTOXIDE, 14-16% in cyclohexane
Product code: AKP648
Product form: Mixture
Physical state: Liquid
Formula: C_{5}H_{11}KO; C_{6}H_{12}
Synonyms: POTASSIUM T-AMYLOXIDE; POTASSIUM T-PENTYLOXIDE; POTASSIUM 2-METHYLBUTAN-2-OLATE
Chemical family: METAL ALCOHOLATE

1.2. Recommended use and restrictions on use

Recommended use: Chemical intermediate

1.3. Supplier

GELEST, INC.
11 East Steel Road
Morrisville, PA 19067
USA
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST
info@gelest.com - www.gelest.com

1.4. Emergency telephone number

Emergency number: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification
- Flammable liquids Category 2 (H225: Highly flammable liquid and vapor)
- Skin corrosion/irritation Category 1B (H314: Causes severe skin burns and eye damage)
- Serious eye damage/eye irritation Category 1 (H318: Causes serious eye damage)
- Specific target organ toxicity (single exposure) Category 3 (H336: May cause drowsiness or dizziness)
- Hazardous to the aquatic environment - Acute Hazard Category 2 (H401: Toxic to aquatic life)

Full text of H statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal word (GHS US): Danger

Hazard statements (GHS US):
- H225: Highly flammable liquid and vapor
- H314: Causes severe skin burns and eye damage
- H318: Causes serious eye damage
- H336: May cause drowsiness or dizziness
- H401: Toxic to aquatic life

Precautionary statements (GHS US):
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P310 - Immediately call a doctor
- P210 - Keep away from heat, open flames, sparks. - No smoking.
- P240 - Ground/Bond container and receiving equipment
- P241 - Use explosion-proof electrical equipment
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P260 - Do not breathe vapors.
- P264 - Wash hands thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
- P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
POTASSIUM 2-METHYL-2-BUTOXIDE, 14-16% in cyclohexane
Safety Data Sheet

2.3. Hazards not otherwise classified (HNOC)
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>Cyclohexane</td>
<td>(CAS No.) 110-82-7</td>
<td>84 - 86</td>
<td>Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapour), H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401</td>
</tr>
<tr>
<td>Potassium 2-methyl-2-butoxide</td>
<td>(CAS No.) 41233-93-6</td>
<td>14 - 16</td>
<td>Flam. Sol. 2, H228 Skin Corr. 1B, H314 Eye Dam. 1, H318</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: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Symptoms/effects: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation: May cause drowsiness or dizziness. Inhalation will cause sneezing, irritation and burns.
Symptoms/effects after skin contact: Causes (severe) skin burns. Worker will notice a slippery feeling on washing.
Symptoms/effects after eye contact: Causes serious eye damage.
Symptoms/effects after ingestion: May be harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary
No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Dry chemical. Dry soda ash.
Unsuitable extinguishing media: Do not use water or foam.

5.2. Specific hazards arising from the chemical

Fire hazard: Highly flammable liquid and vapor. Irritating fumes and caustic vapors may develop when material is exposed to elevated temperatures or open flame.
Explosion hazard: May form flammable/explosive vapor-air mixture.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Exercise caution when fighting any chemical fire. Protect against caustic dust, smoke and water.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist. Wear pressure demand self-contained breathing apparatus with full facepiece and full protective clothing.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Eliminate every possible source of ignition. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Precautions for safe handling: Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.

Storage conditions: Keep container tightly closed. Keep in a cool place. Store locked up. Store under dry nitrogen or argon in sealed containers.


Storage area: Store in a well-ventilated place. Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Cyclohexane (110-82-7)</th>
<th>ACGIH TWA (ppm)</th>
<th>100 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>1050 mg/m³</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>300 ppm</td>
</tr>
<tr>
<td>IDLH</td>
<td>US IDLH (ppm)</td>
<td>1300 ppm (10% LEL)</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>1050 mg/m³</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
<td>300 ppm</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls

Appropriate engineering controls: Provide local exhaust or general room ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:
Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:
Neoprene or nitrile rubber gloves
Safety Data Sheet

Eye protection:
Chemical goggles or face shield. Contact lenses should not be worn.

Skin and body protection:
Wear suitable protective clothing. Long-sleeved fire-resistant lab uniform or coverall is recommended.

Respiratory protection:
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified caustic organic vapor (black cartridge) respirator.

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>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>126.24 g/mol</td>
</tr>
<tr>
<td>Color</td>
<td>Clear to amber.</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild. Sweet.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Refractive index</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>81 °C (initial, cyclohexane)</td>
</tr>
<tr>
<td>Flash point</td>
<td>-18 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>245 °C (cyclohexane)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>78 mm Hg</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>2.7 (cyclohexane)</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.8</td>
</tr>
<tr>
<td>% Volatiles</td>
<td>&gt; 80 %</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water. Reacts vigorously with water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>1.3 - 8.4 vol % (lower; upper: cyclohexane)</td>
</tr>
</tbody>
</table>

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under nitrogen or argon in sealed containers.

10.3. Possibility of hazardous reactions
Material decomposes slowly in contact with moist air and rapidly in contact with water.

10.4. Conditions to avoid
Heat. Open flame. Sparks.

10.5. Incompatible materials

10.6. Hazardous decomposition products
POTASSIUM 2-METHYL-2-BUTOXIDE, 14-16% in cyclohexane

Safety Data Sheet

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

<table>
<thead>
<tr>
<th>Cyclohexane (110-82-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>12705 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>13.9 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>12705 mg/kg body weight</td>
</tr>
<tr>
<td>ATE US (vapors)</td>
<td>13.9 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
<td>13.9 mg/l/4h</td>
</tr>
</tbody>
</table>

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
Reproductive toxicity: Not classified
Specific target organ toxicity – single exposure: May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure: Not classified
Aspiration hazard: Not classified
Potential Adverse human health effects and symptoms: Health effects of potassium 2-methyl-2-butoxide solution are associated with potassium hydroxide, the hydrolysis product, and cyclohexane.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Toxic to aquatic life.

<table>
<thead>
<tr>
<th>Cyclohexane (110-82-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>3.96 - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>23.03 - 42.07 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Cyclohexane (110-82-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>3.44</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects: This substance may be hazardous to the environment.
Effect on the ozone layer: No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

| Sewage disposal recommendations | Do not dispose of waste into sewer. |
| Product/Packaging disposal recommendations | Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. |
| Additional information | Handle empty containers with care because residual vapors are flammable. |
| Ecology - waste materials | Avoid release to the environment. |
POTASSIUM 2-METHYL-2-BUTOXIDE, 14-16% in cyclohexane
Safety Data Sheet

SECTION 14: Transport information

14.1. UN number
UN-No.(DOT) : 2924
DOT NA no. : UN2924

14.2. UN proper shipping name
Transport document description : UN2924 Flammable liquids, corrosive, n.o.s. (POTASSIUM 2-METHYL-2-BUTOXIDE, 14-16% in cyclohexane), 3 (8), II
Proper Shipping Name (DOT) : Flammable liquids, corrosive, n.o.s. (POTASSIUM 2-METHYL-2-BUTOXIDE, 14-16% in cyclohexane)
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT) : II - Medium Danger
Hazard labels (DOT) : 3 - Flammable liquid 8 - Corrosive

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 243
DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Symbols : G - Identifies PSN requiring a technical name

14.3. Additional information
Emergency Response Guide (ERG) Number : 132
Other information : No supplementary information available.

Transport by sea
DOT Vessel Stowage Location : B - (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other : 40 - Stow “clear of living quarters”

Air transport
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 5 L

SECTION 15: Regulatory information

15.1. US Federal regulations
Cyclohexane (110-82-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
EPA TSCA Regulatory Flag : T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.
SARA Section 313 - Emission Reporting : 1 %

Potassium 2-methyl-2-butoxide (41233-93-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations
CANADA
Cyclohexane (110-82-7)
Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification : Class B Division 2 - Flammable Liquid
Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Potassium 2-methyl-2-butoxide (41233-93-6)
Listed on the Canadian NDSL (Non-Domestic Substances List)
# POTASSIUM 2-METHYL-2-BUTOXIDE, 14-16% in cyclohexane

## Safety Data Sheet

### EU-Regulations

<table>
<thead>
<tr>
<th>Compound</th>
<th>EU-Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexane (110-82-7)</td>
<td>Listed on the AICS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Potassium 2-methyl-2-butoxide (41233-93-6)</td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
</tbody>
</table>

### National regulations

<table>
<thead>
<tr>
<th>Compound</th>
<th>National Registrations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexane (110-82-7)</td>
<td>Listed on the AICS (Australian Inventory of Chemical Substances); Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China); Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory; Listed on the Korean ECL (Existing Chemical Substances List); Listed on NZIoC (New Zealand Inventory of Chemicals); Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances); Listed on the Canadian IDL (Ingredient Disclosure List); Listed on INSQ (Mexican National Inventory of Chemical Substances); Listed on CICR (Turkish Inventory and Control of Chemicals)</td>
</tr>
<tr>
<td>Potassium 2-methyl-2-butoxide (41233-93-6)</td>
<td>Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory; Listed on the Japanese ISHL (Industrial Safety and Health Law); Listed on the Korean ECL (Existing Chemical Substances List)</td>
</tr>
</tbody>
</table>

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

<table>
<thead>
<tr>
<th>State</th>
<th>Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Massachusetts</td>
<td>Right To Know List</td>
</tr>
<tr>
<td>U.S. - New Jersey</td>
<td>Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania</td>
<td>RTK (Right to Know) - Environmental Hazard List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania</td>
<td>RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

### SECTION 16: Other information

**Full text of H-phrases:**

<table>
<thead>
<tr>
<th>H-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>H228</td>
<td>Flammable solid</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</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>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
</tbody>
</table>

**Abbreviations and acronyms:**

- ND: Not Determined, No Data;
- NA: Not Applicable;
- LD: Lethal Dose;
- LC: Lethal Concentration;
- ATE: Acute Toxicity Estimates;
- H: hour;
- °: °C unless otherwise stated;
- mm: millimeters Hg, torr;
- PEL: permissible exposure level;
- TWA: time weighted average;
- TLV: threshold limit value;
- TG: Test Guideline;
- NIOSH: National Institute for Occupational Safety and Health;
- IARC: International Agency for Research on Cancer;
- NTP: National Toxicology Program;
- HMIS: Hazardous Material Information System;
- CAS No.: Chemical Abstract Service Registration Number;
- EC No.: European Commission Registration Number;
- EC Index No.: European Commission Index Number;
- OECD: The Organisation for Economic Co-operation and Development;
- GHS: The Globally Harmonized System of Classification and Labelling;
- APF: Assigned Protection Factor.

### Hazard Rating

**Health**

- 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

**Flammability**

- 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)

**Physical**

- 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Print date: 04/09/2019  EN (English US)  SDS ID: AKP648 7/8
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