KTEX 2014 USA
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 02/01/2016 Version: 1.0

SECTION 1: Identification

1.1. Identification
Product form : Mixture
Name : KTEX 2014 USA
Product code : 41797 (200L), 41798 (20L)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Dry-cleaning solvent

1.3. Details of the supplier of the safety data sheet
BARDAHL MANUFACTURING CORPORATION
1400 N.W. 52ND Street
PO BOX 70607
SEATTLE, WA 98127-0607
T Office: 206-783-4851 / Toll Free: 1-888-227-3245 (888-BARDAHL) - F 206-784-3219
customerservice@bardahl.com

1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>American Association of Poison Control Centers</td>
<td>515 King Street, Suite 510 VA 22314 Alexandria</td>
<td>1-800-222-1222</td>
</tr>
</tbody>
</table>

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Flam. Liq. 4 H227
Skin Sens. 1 H317
Asp. Tox. 1 H304

Full text of H-statements: see section 16

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : H227 - Combustible liquid
H304 - May be fatal if swallowed and enters airways
H317 - May cause an allergic skin reaction
Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P261 - Avoid breathing vapours
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves, eye protection
P301+P310 - If swallowed: Immediately call a POISON CENTER, a doctor
P302+P352 - If on skin: Wash with plenty of soap and water
P321 - Specific treatment (see supplemental first aid instruction on this label)
P331 - Do NOT induce vomiting
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P370+P378 - In case of fire: Use carbon dioxide (CO2), foam, hazy water, powder to extinguish
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant
2.3. Other hazards

Other hazards not contributing to the classification: Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</td>
<td>(CAS No) 64742-48-9</td>
<td>90 - 100</td>
<td>Flam. Liq. 4, H227 Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>3-butoxypropan-2-ol, propylene glycol monobutyl ether</td>
<td>(CAS No) 5131-66-8</td>
<td>1 - 4</td>
<td>Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Terpenes and Terpenoids, sweet orange-oil</td>
<td>(CAS No) 68647-72-3</td>
<td>&lt; 3</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Move the affected person away from the contaminated area and into the fresh air. Allow the victim to rest. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact: Remove all contaminated clothing and footwear. Wash skin thoroughly with mild soap and water. If case of redness or irritation, call a doctor.

First-aid measures after eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If irritation persists, consult an eye specialist.

First-aid measures after ingestion: Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

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

Symptoms/injuries after inhalation: May cause irritation to the respiratory tract. This material or its emissions may affect the nervous system.

Symptoms/injuries after skin contact: May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact: Direct contact with the eyes is likely to be irritating.


4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO2). Water spray. Foam. Dry powder.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Combustible liquid. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Hydrocarbons.

Reactivity: To our knowledge, the product does not present any particular risk, under normal conditions of use.
5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding.

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

General measures: Remove all sources of ignition.

6.1.1. For non-emergency personnel

Protective equipment: Avoid contact with skin and eyes. Do not breathe vapours.

6.1.2. For emergency responders

Protective equipment: Only qualified personnel equipped with suitable protective equipment may intervene. Equip cleanup crew with proper protection. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions

Avoid release to the environment. 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: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite, kieselguhr, powdered limestone. Shovel into suitable and closed container for disposal.

Methods for cleaning up: Wash contaminated area with large amounts of water. Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Ensure good ventilation of the work station.

Precautions for safe handling: Avoid contact with skin and eyes. Do not breathe vapours. Use non-sparking tools. Remove all sources of ignition.

Hygiene measures: Do not drink, eat or smoke in the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. If on skin, take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in dry, cool, well-ventilated area. Keep away from sources of ignition. Keep away from heat.

Incompatible products: Strong acids. Oxidation agents.

Maximum storage period: 3 years

Special rules on packaging: Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

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

Hand protection: Protective gloves. Breakthrough time: refer to the recommendations of the supplier.

Eye protection: Chemical goggles or 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>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</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>185 - 220 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 61 °C</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>0.6 - 6.1 vol %</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.8 - 0.815</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
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<tr>
<td>Solubility</td>
<td>No data available</td>
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<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>&gt; 230 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>235 - 315 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1.5 mm²/s (40 °C)</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10.3. Possibility of hazardous reactions

Combustible liquid. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.

### 10.4. Conditions to avoid

Heat. No flames, no sparks. Eliminate all sources of ignition. Avoid the build-up of electrostatic charge

### 10.5. Incompatible materials

Strong acids. Strong oxidizers.

### 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
  (Based on available data, the classification criteria are not met)

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9) |
|----------------|----------------------------------|
| LD50 oral rat  | > 5000 mg/kg (OECD 401)         |
| LD50 dermal rabbit | > 5000 mg/kg (OECD 402)       |
| LC50 inhalation rat | > 4951 mg/m³ (4h - OECD 403) |

Skin corrosion/irritation:
- Not classified
  (Based on available data, the classification criteria are not met)
  pH: Not applicable

Serious eye damage/irritation:
- Not classified
  (Based on available data, the classification criteria are not met)
  pH: Not applicable

Respiratory or skin sensitisation:
- May cause an allergic skin reaction.

Germ cell mutagenicity:
- Not classified
  (Based on available data, the classification criteria are not met)

Carcinogenicity:
- Not classified
  (Based on available data, the classification criteria are not met)

Reproductive toxicity:
- Not classified
  (Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure):
- Not classified
  (Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure):
- Not classified
  (Based on available data, the classification criteria are not met)

Aspiration hazard:
- May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation:
- May cause irritation to the respiratory tract. This material or its emissions may affect the nervous system.

Symptoms/injuries after skin contact:
- May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact:
- Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion:

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general:
- Harmful to aquatic life with long lasting effects.

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9) |
|----------------|----------------------------------|
| LC50 fish      | > 1000 mg/l (Onchorhyncus mykiss - 96h) |
| EC50 Daphnia   | > 1000 mg/l (Daphnia magna, 48h)     |
| EC50 other aquatic organisms | > 1000 mg/l EC50 waterflea (48 h) |
| EC50 other aquatic organisms | > 1000 mg/l IC50 algae (72 h) mg/l |

12.2. Persistence and degradability

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9) |
|----------------|----------------------------------|
| Persistence and degradability | Readily biodegradable. |
### 12.3. Bioaccumulative potential
No additional information available

### 12.4. Mobility in soil
No additional information available

### 12.5. Other adverse effects

<table>
<thead>
<tr>
<th>Effect on the ozone layer</th>
<th>Effect on global warming</th>
</tr>
</thead>
<tbody>
<tr>
<td>: No known effects from this product.</td>
<td>: No known effects from this product.</td>
</tr>
</tbody>
</table>

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Waste disposal recommendations</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>: Do not discharge into the sewer. Dispose of in accordance with relevant local regulations.</td>
<td>: Empty the packaging completely prior to disposal. Recycle or dispose of in compliance with current legislation.</td>
</tr>
</tbody>
</table>

### SECTION 14: Transport information

**Department of Transportation (DOT)**
In accordance with DOT
Not regulated for transport

**TDG**
No additional information available

**Transport by sea**
No additional information available

**Air transport**
No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<table>
<thead>
<tr>
<th>KTEX 2014 USA</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
</tr>
</tbody>
</table>

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313

**3-butoxypropan-2-ol, propylene glycol monobutyl ether (5131-66-8)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313

**Terpenes and Terpenoids, sweet orange-oil (68647-72-3)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313
15.2. International regulations

CANADA

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9)
Listed on the Canadian DSL (Domestic Substances List)

3-butoxypropan-2-ol, propylene glycol monobutyl ether (5131-66-8)
Listed on the Canadian DSL (Domestic Substances List)

Terpenes and Terpenoids, sweet orange-oil (68647-72-3)
Listed on the Canadian DSL (Domestic Substances List)

National regulations

Terpenes and Terpenoids, sweet orange-oil (68647-72-3)
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 Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

KTEX 2014 USA

U.S. - California - Proposition 65 - Other information
This product does not contain any substances known to the state of California to cause cancer and/or reproductive toxicity

SECTION 16: Other information

Data sources: SDS of suppliers.

Full text of H-statements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment — Acute Hazard, Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 3</td>
</tr>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard, Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation, Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids, Category 3</td>
</tr>
<tr>
<td>Flam. Liq. 4</td>
<td>Flammable liquids, Category 4</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Sensitisation — Skin, Category 1</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour</td>
</tr>
<tr>
<td>H227</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>
KTEX 2014 USA
Safety Data Sheet
according to Federal Register / Vol. 77, No. 56 / Monday, March 26, 2012 / Rules and Regulations

HMIS III Rating
Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal Protection : B - Safety glasses, Gloves

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.