1. Product and Company Identification

Material name: Tiki Torch Fuel
Revision date: 11/20/13
Version #: 02
CAS #: Mixture
Product use: Fuel for outdoor patio torches and lamps.
Manufacturer/Supplier: Lamplight Farms Inc.
W140 N4900 Lilly Road
Menomonee Falls, WI 53051
US
General Information: 1-888-473-1088
Contact Person: Quality Department

Emergency:
24 Hour Emergency: 1-800-308-7141 (Prosar)

2. Hazards Identification

Physical state: Liquid.
Appearance: Gray blue
Emergency overview: WARNING!
Combustible liquid and vapor. Harmful if swallowed - may enter lungs if swallowed or vomited.
Causes skin irritation. High vapor concentrations may cause central nervous system effects.

OSHA regulatory status: This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects:
Routes of exposure: Not applicable.
Eyes: Direct contact with eyes may cause temporary irritation.
Skin: Causes skin irritation.
Inhalation: High vapor concentrations may cause central nervous system effects.
Ingestion: Swallowing or vomiting of the liquid may result in aspiration into the lungs.

Potential environmental effects: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle</td>
<td>64742-46-7</td>
<td>0 - 100</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>0 - 100</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

First aid procedures:

Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.

Skin contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse.

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion: DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration. Call a physician or poison control center immediately.

5. Fire Fighting Measures

Flammable properties: Combustible liquid and vapor.
Extinguishing media
Suitable extinguishing media

Fire fighting equipment/instructions
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific methods
Use water with caution: Material will float and may ignite on the surface of water. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Hazardous combustion products
Carbon oxides.

6. Accidental Release Measures

Personal precautions
Wear appropriate personal protective equipment (See Section 8).

Methods for cleaning up
Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical waste.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

7. Handling and Storage

Handling
Avoid breathing high vapor concentrations. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Storage
Keep away from heat, sparks and open flame. Keep container tightly closed and in a well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits
US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle (64742-46-7)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

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>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle (64742-46-7)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle (64742-46-7)</td>
<td>STEL</td>
<td>10 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light (64742-47-8)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light (64742-47-8)</td>
<td>TWA</td>
<td>200 mg/m3</td>
<td>Vapor.</td>
</tr>
</tbody>
</table>

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light (64742-47-8)</td>
<td>TWA</td>
<td>200 mg/m3</td>
<td>Non-aerosol.</td>
</tr>
</tbody>
</table>

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated middle (64742-46-7)</td>
<td>STEL</td>
<td>10 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated middle (64742-46-7)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
</tbody>
</table>
Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components | Type | Value | Form |
---|---|---|---|
Distillates (petroleum), hydrotreated middle (64742-46-7) | STEL | 10 mg/m3 | Mist. |
Distillates (petroleum), hydrotreated middle (64742-46-7) | TWA | 5 mg/m3 | Mist. |

Mexico. Occupational Exposure Limit Values

Components | Type | Value | Form |
---|---|---|---|
Distillates (petroleum), hydrotreated middle (64742-46-7) | STEL | 10 mg/m3 | Mist. |
Distillates (petroleum), hydrotreated middle (64742-46-7) | TWA | 5 mg/m3 | Mist. |

Engineering controls
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Eye / face protection
Wear safety glasses with side shields (or goggles).

Skin protection
Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

Respiratory protection
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance | Gray blue
Color | Gray blue
Odor | Hydrocarbon
Odor threshold | Not available
Physical state | Liquid
Form | Liquid
pH | Not available
Melting point | Not available
Freezing point | Not available
Boiling point | 671 - 878 °F (355 - 470 °C)
Flash point | 145 - 275 °F (62.8 - 135 °C)
Evaporation rate | Not available
Flammability limits in air, upper, % by volume | 7
Flammability limits in air, lower, % by volume | 0.7
Vapor pressure | 0.1 - 0.9 mmHg (20°C)
Vapor density | 5.4 - 0.82 (15.6°C)
Specific gravity | 0.78 - 0.82
Solubility (water) | Insoluble
Partition coefficient (n-octanol/water) | Not available
Auto-ignition temperature | > 450 °F (> 232.2 °C)
Decomposition temperature | Not available
Viscosity | 1.4 - 3.9 cSt
10. Chemical Stability & Reactivity Information

Chemical stability
Material is stable under normal conditions.

Conditions to avoid
Keep away from heat, sparks and open flame.

Incompatible materials
Strong oxidizing agents.

Hazardous decomposition products
No hazardous decomposition products are known.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects
Harmful if swallowed - may enter lungs if swallowed or vomited. Causes skin irritation. High vapor concentrations may cause central nervous system effects.

Sensitization
No sensitizing effects known.

Carcinogenicity

ACGIH Carcinogens
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7) A2 Suspected human carcinogen.

Distillates (petroleum), hydrotreated middle (CAS 64742-46-7) A4 Not classifiable as a human carcinogen.

US NTP Report on Carcinogens: Known carcinogen
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7) Known carcinogen.

12. Ecological Information

Ecotoxicological data

Components Test Results
Distillates (petroleum), hydrotreated light (64742-47-8) LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 2.9 mg/l 96 hours

Ecotoxicity
Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.

Persistence and degradability
No data available.

Bioaccumulation / Accumulation
No data available.

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

Mobility in environmental media
No data available.

13. Disposal Considerations

Disposal instructions
Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

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

14. Transport Information

DOT

Basic shipping requirements:
UN number UN1268
Proper shipping name Petroleum distillates, n.o.s.
Hazard class Combustible Liquid
Packing group III
Labels required 3

Additional information:
Special provisions 144, B1, IB3, T4, TP1, TP29
Packaging exceptions 150
Packaging non bulk 203
Packaging bulk 242
ERG number 128

IATA
Not regulated as dangerous goods.

IMDG
Basic shipping requirements:
UN number 3082
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PETROLEUM DISTILLATES)
Hazard class Packing group Environmental hazards
9 III
Marine pollutant Yes
EmS No. F-A, S-F

TDG
Basic shipping requirements:
Proper shipping name PETROLEUM DISTILLATES, N.O.S.
Hazard class 3
UN number UN1268
Packing group III

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.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CRF 355, Appendix A) No
Section 311/312 (40 CFR 370) No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

WHMIS status Controlled

WHMIS classification B3 - Flammable/Combustible
D2B - Other Toxic Effects-TOXIC

WHMIS labeling

Inventory status
Country(s) or region Inventory name On inventory (yes/no)*
Australia Australian Inventory of Chemical Substances (AICS) Yes
Canada Domestic Substances List (DSL) Yes
Canada Non-Domestic Substances List (NDSL) No
<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<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>No</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 that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
Combustion products emitted when this product is burning may contain chemicals known to the state of California to cause cancer, birth defects or reproductive harm.

16. Other Information

Further information
HMIS® is a registered trade and service mark of the NPCA. A HMIS® Health rating including an * indicates a chronic hazard.

HMIS® ratings
Health: 2*
Flammability: 2
Physical hazard: 0

NFPA ratings
Health: 2
Flammability: 2
Instability: 0

Disclaimer
The information given is based on data available for the material, the components of the material, and similar materials.

Issue date
03-10-2011

Revisions:
11/20/13 – changed appearance from yellow to gray blue