1. Identification

1.1. Product identifier

Product Identity: EcoGreen Charcoal Lighter™
Alternate Names: Natural Charcoal Lighter Fluid

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: For exclusive use in the ignition of cooking charcoal and wood fires. NOT for use as a torch fuel or any other purpose. Strictly for outdoor use only.

Application Method: Pour on charcoal.

1.3. Details of the supplier of the safety data sheet

Company Name: Escogo LLC
941 Monroe Jersey Road
Monroe Georgia 30655.
USA

Emergency
CHEMTREC (USA): (800) 424-9300
24 hour Emergency Telephone No.
PERS: (800) 633-8253
Customer Service: Escogo LLC
Telephone: +1 770-464-5564
Email: info@escogo.com

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Flam. Liq. 3;H226: Flammable liquid and vapor.
Skin Irrit. 2;H315: Causes skin irritation.
Eye Dam. 1;H318: Causes serious eye damage.
STOT SE 3;H335: May cause respiratory irritation.
STOT SE 3;H336: May cause drowsiness or dizziness.

2.2. Label elements

H226 Flammable liquid and vapor.

Danger
Safety Data Sheet
EcoGreen Charcoal Lighter™

SDS Revision Date: 11/30/2017

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness and dizziness.

[Prevention]:
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P233 Keep container tightly closed.
P240 Ground / bond container and receiving equipment.
P241 Use explosion-proof electrical / ventilating / light / equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P310 Immediately call a POISON CENTER or doctor / physician.
P321 Specific treatment (see information on this label).
P332+313 If skin irritation occurs: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:
P403+233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusel oil</td>
<td>50-75</td>
<td>Flam. Liq. 2;H225</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0008013-75-0</td>
<td></td>
<td>Skin Irrit. 2;H315</td>
<td></td>
</tr>
</tbody>
</table>
Section 4. First aid measures

4.1. Description of first aid measures

General
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion
If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Overview
Exposure to vapor concentrations from the component in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Inhalation
May cause drowsiness or dizziness. May cause respiratory irritation.

Eyes
Causes serious eye damage.

Skin
Causes skin irritation.
Section 5. Fire-fighting measures

5.1. Extinguishing media
Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Do not use: water jet.

5.2. Special hazards arising from the substance or mixture
Oil soaked rags can cause spontaneous combustion if not handled properly. Wash rags with soap and water before disposal.
Hazardous decomposition: Combustion produces carbon monoxide, carbon dioxide, and thick smoke.
Keep away from heat / sparks / open flames / hot surfaces - No smoking.
Keep container tightly closed.
Ground / bond container and receiving equipment.
Use explosion-proof electrical / ventilating / light / equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters
None

ERG Guide No. 128

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Put on appropriate personal protective equipment (see section 8).
Oil soaked rags can cause spontaneous combustion if not handled properly. Wash rags with soap and water before disposal.

6.2. Environmental precautions
Do not allow spills to enter drains or waterways.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet.
Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up
Oil soaked rags can cause spontaneous combustion if not handled properly. Wash rags with soap and water before disposal.
Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.
Section 7. Handling and storage

7.1. Precautions for safe handling
Store in closed containers between 50°F and 120°F
See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities
Incompatible materials: Strong oxidizing agents
See section 2 for further details. - [Storage]:

7.3. Specific end use(s)
No data available.

Section 8. Exposure controls and personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0008013-75-0</td>
<td>Fusel oil</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0067784-80-9</td>
<td>Soybean oil, Me ester</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>68990-52-3</td>
<td>Used cooking oil, Me ester</td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>68937-84-8</td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Respiratory
If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes
Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin
Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer’s recommendations regarding the suitability of any gloves used.

Engineering Controls
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. See section 2 for further details.

Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>6.3 pH</td>
</tr>
<tr>
<td>Distillation Range</td>
<td>245F to 700F / 118C to 371C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>204F / 96C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>106F or 41C</td>
</tr>
<tr>
<td>Evaporation rate (Ether = 1)</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Lower Explosive Limit: Not Measured</td>
</tr>
<tr>
<td></td>
<td>Upper Explosive Limit: Not Measured</td>
</tr>
<tr>
<td>Vapor pressure (Pa)</td>
<td>0.81 psi</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.85</td>
</tr>
<tr>
<td>Weight</td>
<td>6.99 lbs. per gallon</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not Soluble</td>
</tr>
<tr>
<td>API Gravity</td>
<td>36 API</td>
</tr>
<tr>
<td>Auto-ignition temperature ASTM E659</td>
<td>460F / 238C</td>
</tr>
<tr>
<td>Sulfur Content</td>
<td>75.7 ppm</td>
</tr>
<tr>
<td>Viscosity (cSt)</td>
<td>3.26 mm2/sec.</td>
</tr>
<tr>
<td>Benzene Content</td>
<td>None found per GC/MS</td>
</tr>
<tr>
<td>Methanol Content</td>
<td>None found per GC/MS</td>
</tr>
</tbody>
</table>

9.2. Other information
No other relevant information.

Section 10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
Keep away from oxidizing agents, excessive heat, and ignition sources.
10.5. Incompatible materials
Strong oxidizing agents

10.6. Hazardous decomposition products
Combustion produces carbon monoxide, carbon dioxide, and thick smoke.

Section 11. Toxicological information

Acute toxicity
Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusel oil - (8013-75-0)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Soybean oil, Me ester - (67784-80-9)</td>
<td>&gt; 5,000.00, Rat - Category: NA</td>
<td>&gt; 2,000.00, Rabbit - Category: 5</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Used cooking oil, Me ester - (68990-52-3) or (68937-84-8)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Carcinogen Data

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0008013-75-0</td>
<td>Fusel oil</td>
<td>OSHA</td>
<td>Regulated Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
<tr>
<td>0067784-80-9</td>
<td>Soybean oil, Me ester</td>
<td>OSHA</td>
<td>Regulated Carcinogen: No</td>
</tr>
<tr>
<td>68990-52-3</td>
<td>Used cooking oil, Me ester</td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td>68937-84-8</td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
</tbody>
</table>

Classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>2</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>1</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>3</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>3</td>
<td>May cause respiratory irritation.</td>
</tr>
</tbody>
</table>
Section 12. Ecological information

12.1. Toxicity
No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusel oil - (8013-75-0)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Soybean oil, Me ester - (67784-80-9)</td>
<td>&gt; 1,000, Fish (Piscis)</td>
<td>800.00, Daphnia magna</td>
<td>Not Available</td>
</tr>
<tr>
<td>Used cooking oil, Me ester (68990-52-3) or (68937-84-8)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
There is no data available on the preparation itself.

12.3. Bioaccumulative potential
Not Measured

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects
No data available.

Section 13. Disposal considerations

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

Section 14. Transport information

14.1. UN number
UN1993

14.2. UN proper shipping name
UN1993, Flammable liquids, n.o.s., 3, III

14.3. Transport hazard class(es)
DOT Hazard Class: 3

DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA
---|---|---
UN1993 | UN1993 | UN1993
Flammable liquids, n.o.s. | Flammable liquids, n.o.s. | Flammable liquids, n.o.s.
IMDG: 3 | | Air Class: 3
Section 15. Regulatory information

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act (TSCA)**
All components of this material are either listed or exempt from listing on the TSCA Inventory.

**WHMIS 1988 Classification**
B3  D2B  E

**US EPA Tier II Hazards**

- **Fire:** Yes
- **Sudden Release of Pressure:** No
- **Reactive:** No
- **Immediate (Acute):** Yes
- **Delayed (Chronic):** No

**Note:** Ethanol (Ethyl alcohol) has been placed on the California Proposition 65 Cancer and Developmental Lists when in alcoholic beverages.

**EPCRA 302 Extremely Hazardous:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM. COMBUSTION PRODUCES CARBON MONOXIDE AND OTHER BY-PRODUCTS THAT ARE KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR REPRODUCTIVE HARM. FOR MORE INFORMATION GO TO WWW.P65WARNINGS.CA.GOV

**Proposition 65 - Developmental Toxins (>0.0%):**
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM. COMBUSTION PRODUCES CARBON MONOXIDE AND OTHER BY-PRODUCTS THAT ARE KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR REPRODUCTIVE HARM. FOR MORE INFORMATION GO TO WWW.P65WARNINGS.CA.GOV

**Proposition 65 - Female Repro Toxins (>0.0%):**
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM. COMBUSTION
PRODUCES CARBON MONOXIDE AND OTHER BY-PRODUCTS THAT ARE KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR REPRODUCTIVE HARM. FOR MORE INFORMATION GO TO WWW.P65WARNINGS.CA.GOV

**Proposition 65 - Male Repro Toxins (>0.0%):**
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM. COMBUSTION PRODUCES CARBON MONOXIDE AND OTHER BY-PRODUCTS THAT ARE KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR REPRODUCTIVE HARM. FOR MORE INFORMATION GO TO WWW.P65WARNINGS.CA.GOV

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**Section 16. Other information**

**SDS Revision Date**  11/28/2017

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness and dizziness.

End of Document