Omstar OpenFlame (formerly Omstar B15 Fuel Conditioner)

Product Number: 21119Omstar-1
Revision Date: 05/01/2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
   Omstar OpenFlame (formerly Omstar B15 Fuel Conditioner)
   Product Code 21119-Omstar OpenFlame

1.2. Relevant identified uses of the substance or mixture and uses advised against
   Intended use See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet
   Manufacturer LUBRICATING SPECIALTIES COMPANY
   8015 PARAMOUNT BLVD.
   PICO RIVERA, CA 90660

   Telephone No. (562) 776-4000
   1.4. Emergency telephone number
       (800) 424-9300 24hr

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.2. Label elements
   Using the Toxicity Data listed in section 11 & 12 the product is labeled as follows.

   P273 Avoid release to the environment.
   P332+313 If skin irritation occurs: Get medical advice/attention
   P391 Collect spillage.
   P501 Dispose of contents / container in accordance with local / national regulations.

   HMIS Health: 2
   NFPA Health: 2
2.3. Other hazards
This product contains no PBT/vPvB chemicals.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>EC No. 1272/2008 / GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), heavy aromatic</td>
<td>&lt;80</td>
<td>Asp. Tox. 1;H304</td>
</tr>
<tr>
<td>CAS Number: 0064742-94-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acid Methyl Esters</td>
<td>&lt;20</td>
<td>Not Classified</td>
</tr>
<tr>
<td>CAS Number: Proprietary or N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Naphthalene</td>
<td>&lt;10</td>
<td>Carc. 2;H351</td>
</tr>
<tr>
<td>CAS Number: 0000091-20-3</td>
<td></td>
<td>Acute Tox. 4;H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Acute 1;H400</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Chronic 1;H410</td>
</tr>
<tr>
<td>Polyol Esters</td>
<td>&lt;5</td>
<td>Not Classified</td>
</tr>
<tr>
<td>CAS Number: Proprietary or N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distillate (petroleum) hydrotreated heavy naphthenic</td>
<td>&lt;3</td>
<td>Not Classified</td>
</tr>
<tr>
<td>CAS Number: 0064742-52-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene</td>
<td>&lt;3</td>
<td>Flam. Liq. 3;H226</td>
</tr>
<tr>
<td>CAS Number: 0000095-63-6</td>
<td></td>
<td>Acute Tox. 4;H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Irrit. 2;H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT SE 3;H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2;H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Chronic 2;H411</td>
</tr>
</tbody>
</table>

*The full texts of the phrases are shown in Section 16.

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
If inhaled, remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. If unconscious, place in the recovery position and seek medical attention immediately.

Skin
In case of contact, immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. If skin irritation occurs, seek medical attention. Launder contaminated clothing before reuse.

Eye
In case of contact, immediately rinse eyes with plenty of fresh, clean water for at least 15 minutes. Remove contact lenses if present and continue rinsing. Seek medical attention immediately.
Ingestion
Do not induce vomiting. Call a physician or emergency medical facility immediately.

4.2. Most important symptoms and effects, both acute and delayed
No data available
4.3. Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media
Use Carbon dioxide (CO2), dry chemical, or foam to extinguish flames.
5.2. Special hazards arising from the substance or mixture
Hazardous Decomposition Products: May form CO and CO2.
5.3. Advice for fire-fighters
Self-contained full-face positive pressure breathing apparatus (SCBA) should be used. Water can be used to cool and protect exposed material. Do not allow runoff water and contaminants from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with spilled material. Use suitable personal protective equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Evacuate personnel to safe areas. Keep unnecessary personnel away.
6.2. Environmental precautions
Prevent entry into sewers and waterways. Report spills as required to appropriate authorities in accordance with all applicable regulations.
6.3. Methods and material for containment and cleaning up
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, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or water courses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.
Dispose of in accordance with all federal, state, and local environmental regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Handling
Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation.

In Storage
Store in a dry location at room temperature.
Keep this container and vapors from the container away from heat and flame. Keep container closed and maintain all original markings and labels.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from strong oxidizing and reducing agents.
CAUTION!!! Do not use cutting or welding torches on drums, even when empty. Do not reuse container.
Containers, even those that have been emptied will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

7.3. Specific end use(s)
There are no exposure scenarios, see details in section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
The following occupational exposure limits have been established.

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000091-20-3</td>
<td>Naphthalene</td>
<td>OSHA</td>
<td>TWA 10 ppm (50 mg/m3) STEL 15 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>10 ppm TWA 15 ppm STEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>TWA 10 ppm (50 mg/m3) ST 15 ppm (75 mg/m3)</td>
</tr>
<tr>
<td>0000095-63-6</td>
<td>1,2,4-trimethylbenzene</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>TWA 25 ppm (125 mg/m3)</td>
</tr>
<tr>
<td>0064742-52-5</td>
<td>Distillate (petroleum) hydrotreated heavy naphthenic</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>0064742-94-5</td>
<td>Naphtha (petroleum), heavy aromatic</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>Proprietary or N/A</td>
<td>Acid Methyl Esters</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>Proprietary or N/A</td>
<td>Polyol Esters</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>
</tbody>
</table>

Contains mineral oil. The exposure limits for oil mist are 5 mg/m3 OSHA PEL and 10 mg/m3 ACGIH.

Carcinogen Data

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000091-20-3</td>
<td>Naphthalene</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
</tbody>
</table>
0000095-63-6 1,2,4-trimethylbenzene
0064742-52-5 Distillate (petroleum) hydrotreated heavy naphthenic
0064742-94-5 Naphtha (petroleum), heavy aromatic
Proprietary or N/A Acid Methyl Esters
Proprietary or N/A Polyol Esters

DNEL/PNEC values
No Data Available

8.2. Exposure controls
No special requirements under ordinary conditions of use and with adequate ventilation.

Eye/face protection
Wear safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.

Skin protection
Wear chemical resistant gloves. Gloves should be inspected before each use and discarded if they show tears, pinholes, or signs of wear.

Other
Gloves, overalls, apron, boots, or other suitable protective garments should be worn to minimize contact based on the task being performed.

Respiratory protection
Use NIOSH/OSHA approved respirator where high vapor concentrations are present.

Thermal hazards
No Data Available

SECTION 9: Physical and chemical properties

Appearance
AMBER OILY LIQUID
Odor
Petroleum Odor
Odor threshold
Not Determined
pH
Not Measured
Melting point / freezing point (C) Not Determined
Initial boiling point and boiling range (C) Not Measured
Flash point (C) > 150
Evaporation rate (H20 = 1) Not Determined
Flammability (solid, gas) Not Applicable
Upper/lower flammability or explosive limits
   Lower Explosive Limit: Not Determined
   Upper Explosive Limit: Not Determined
Vapor pressure (Pa) Not Determined
Vapor density Heavier than air.
Relative density 0.896 Not Measured
Solubility(ies) negligible
Partition coefficient n-octanol/water (Log Kow) Not Determined
Auto-ignition temperature (C) Not Determined
Decomposition temperature Not Determined
Viscosity (cSt)
   @ 100 C Not Measured
   @ 40 C Not Measured
Pour point temperature (C) Not Determined
Volatile Organic Compounds nil
SADT Not Determined

The data listed above are typical physical and chemical properties that do not constitute product specification.

9.2. Other information
DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
Material is normally stable at ambient temperature and pressure.

10.3. Possibility of hazardous reactions
May react with: oxidizing agents.

10.4. Conditions to avoid
High temperature, sparks, and open flames.

10.5. Incompatible materials
Keep away from strong oxidizing and reducing agents.

10.6. Hazardous decomposition products
Hazardous Decomposition Products: May form CO and CO2.

SECTION 11: Toxicological information

Acute toxicity
The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation vapor LD50, mg/L/4hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,4-trimethylbenzene - (0000095-63-6)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Acid Methyl Esters - (Proprietary or N/A)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Distillate (petroleum) hydrotreated heavy naphthenic - (0064742-52-5)</td>
<td>&gt;5,000, Rat</td>
<td>5,000.00, Rabbit</td>
<td>Not Available</td>
</tr>
<tr>
<td>Naphtha (petroleum), heavy aromatic - (0064742-94-5)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Naphthalene - (0000091-20-3)</td>
<td>2,001.00, Rat</td>
<td>2,501.00, Rat</td>
<td>101.00, Rat</td>
</tr>
<tr>
<td>Polyol Esters - (Proprietary or N/A)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritiation</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity
The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

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>Naphtha (petroleum), heavy aromatic - (0064742-94-5)</td>
<td>45.00, Pimephales promelas</td>
<td>12.00, Daphnia magna</td>
<td>2.50 (72 hr), Skeletonema costatum</td>
</tr>
<tr>
<td>Acid Methyl Esters - (Proprietary)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Substance</td>
<td>In Vitro LC50 (mg/L)</td>
<td>In Vitro LC50 (mg/L)</td>
<td>In Vitro LC50 (mg/L)</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>----------------------</td>
<td>----------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Naphthalene - (0000091-20-3)</td>
<td>1.20, Oncorhynchus gorbuscha</td>
<td>1.60, Daphnia magna</td>
<td>68.21 (72 hr), Scenedesmus subspicatus</td>
</tr>
<tr>
<td>Polyol Esters - (Proprietary or N/A)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Distillate (petroleum) hydrotreated heavy naphthenic - (0064742-52-5)</td>
<td>5,000.00, Oncorhynchus mykiss</td>
<td>1,000.00, Daphnia magna</td>
<td>1,000.00 (96 hr), Scenedesmus subspicatus</td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene - (0000095-63-6)</td>
<td>7.72, Pimephales promelas</td>
<td>3.60, Daphnia magna</td>
<td>Not Available</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
Consult federal, state and local regulations regarding disposal methods, recycle used oil. Do not contaminate used oil with solvents or other chemicals.

SECTION 14: Transport information

14.1. UN number
Not applicable

14.2. UN proper shipping name
Not regulated

14.3. Transport hazard class(es)
US DOT Label
Not regulated

ADR/RID
Not regulated

IMDG
Not regulated

Sub Class
Not applicable

14.4. Packing group
Not applicable

14.5. Environmental hazards
ADR/RID  Environmentally Hazardous: Yes - Not regulated
IMDG  Marine Pollutant: Yes (Naphtha (petroleum), heavy aromatic) - Not regulated

14.6. Special precautions for user
No further information
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not Applicable

SECTION 15: Regulatory information

National Legislation
United States:
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

SARA 311/312 (>0.1%): Not applicable

SARA 313 (>0.1%):
1,2,4-trimethylbenzene
Naphthalene

CERCLA (>0.1%):
Naphthalene

Inventory - Canada - Non-Domestic Substances List (NDSL):
Not applicable

California Proposition 65 Cancer:
Naphthalene

California Proposition 65 Developmental: Not applicable

California Proposition 65 Female Reproductive: Not applicable

California Proposition 65 Male Reproductive: Not applicable

Inventory - Australia - Inventory of Chemical Substances (AICS):
1,2,4-trimethylbenzene
Distillate (petroleum) hydrotreated heavy naphthenic
Naphtha (petroleum), heavy aromatic
Naphthalene

Inventory - Japan Existing and New Chemical Substances (ENCS):
1,2,4-trimethylbenzene  (3-7; 3-3427)
Distillate (petroleum) hydrotreated heavy naphthenic  ()
Naphthalene  (4-311)

Korean Existing Chemicals Inventory:
1,2,4-trimethylbenzene
Distillate (petroleum) hydrotreated heavy naphthenic
Naphthalene

Inventory of Existing Chemical Substances in China:
Philippines Inventory of Chemicals and Chemical Substances (PICCS):
1,2,4-trimethylbenzene
Distillate (petroleum) hydrotreated heavy naphthenic
Naphtha (petroleum), heavy aromatic
Naphthalene

Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical Substances Control Act:

EU REACH: Annex XVII, Dangerous Substances and Preparations:
Distillate (petroleum) hydrotreated heavy naphthenic

Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS):
1,2,4-trimethylbenzene  (202-436-9)
Distillate (petroleum) hydrotreated heavy naphthenic  (265-155-0)
Naphtha (petroleum), heavy aromatic  (265-198-5)
Naphthalene  (202-049-5)

EU List of Notified Chemical Substances (ELINCS):
Not applicable

Risk Phrases
R40 Limited evidence of a carcinogenic effect.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 16: Other information

This information has been compiled from sources considered to be dependable and is accurate to the best
of Lubricating Specialties Company knowledge. Lubricating Specialties Company makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Lubricating Specialties Company assumes no responsibility for injury to recipient or third persons, or for any damage to any property and recipient assumes all such risks.

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

H226 Flammable liquid and vapor
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation
H351 Suspected of causing cancer
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects

This is the first revision of this SDS format, changes from previous revision not applicable.

End of document