Omstar DX1 (formerly Omstar D-1280X Fuel Conditioner)

Product Number: 21027Omstar-1
Revision Date: 05/01/2015

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

1.1. Product identifier
Omstar DX1 (formerly Omstar D-1280X Fuel Conditioner)
Product Code 21027-Omstar DX1

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
Not Classified

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

Not Classified

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health:</th>
<th>NFPA</th>
<th>Health:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire:</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Physical</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2.3. Other hazards
This product contains no PBT/PvB 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>Acid Methyl Esters</td>
<td>&lt;70</td>
<td>Not Classified</td>
</tr>
<tr>
<td>CAS Number: Proprietary or N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyol Esters</td>
<td>&lt;30</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;20</td>
<td>Not Classified</td>
</tr>
<tr>
<td>CAS Number: 0064742-52-5</td>
<td></td>
<td></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>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>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>0064742-52-5</td>
<td>Distillate (petroleum) hydrotreated heavy naphthenic</td>
<td>OSHA</td>
<td>Select Carcinogen: 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>Proprietary or N/A</td>
<td>Acid Methyl Esters</td>
<td>OSHA</td>
<td>Select Carcinogen: 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>Proprietary or N/A</td>
<td>Polyol Esters</td>
<td>OSHA</td>
<td>Select Carcinogen: 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>
</tbody>
</table>

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) 
> 170
Evaporation rate (H2O = 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 0.8882
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>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 napthenic - (006472-52-5)</td>
<td>&gt;5,000, Rat</td>
<td>5,000.00, Rabbit</td>
<td>Not Available</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>

Classification  Category  Hazard Description
Acute toxicity (oral)  Not Classified  Not Applicable
Acute toxicity (dermal)  Not Classified  Not Applicable
Acute toxicity (inhalation)  Not Classified  Not Applicable
Skin corrosion/irritation  Not Classified  Not Applicable
Serious eye damage/irritation  Not Classified  Not Applicable
Respiratory sensitization  Not Classified  Not Applicable
Skin sensitization  Not Classified  Not Applicable
Germ cell mutagenicity  Not Classified  Not Applicable
Carcinogenicity  Not Classified  Not Applicable
Reproductive toxicity  Not Classified  Not Applicable
STOT-single exposure  Not Classified  Not Applicable
STOT-repeated exposure  Not Classified  Not Applicable
Aspiration hazard  Not Classified  Not Applicable

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 not classified as dangerous for the environment

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>Acid Methyl Esters - (Proprietary or N/A)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</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>
</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: No - Not regulated

IMDG  Marine Pollutant: No - 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%):  Not applicable

CERCLA (>0.1%):  Not applicable

Inventory - Canada - Non-Domestic Substances List (NDSL):

California Proposition 65 Cancer:  Not applicable

California Proposition 65 Developmental:

California Proposition 65 Female Reproductive:  Not applicable

California Proposition 65 Male Reproductive:  Not applicable

Inventory - Australia - Inventory of Chemical Substances (AICS):

Distillate (petroleum) hydrotreated heavy naphthenic

Inventory - Japan Existing and New Chemical Substances (ENCS):

Distillate (petroleum) hydrotreated heavy naphthenic  ()
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:

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

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