SECTION 1: Identification

1.1. Identification
Product form: Mixture
Product name: Lucas Cetane Booster
Product code: 11031, 11032

1.2. Recommended use and restrictions on use
Recommended use: Additive
Restrictions on use: No additional information available

1.3. Supplier
Lucas Oil Products, Inc
302 North Sheridan Street
Corona, California 92880-2067 - USA
T (951) 270-0154 - F (951) 270-1902
GHewgill@lucasoil.com - www.LucasOil.com

1.4. Emergency telephone number
Emergency number: ChemTel (CN: MIS6309637)
1-800-255-3924 (USA, Canada, Puerto Rico, US V.I.)
+1-813-248-0585 (International)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Acute Tox. 4 (Oral) H302 - Harmful if swallowed.
Acute Tox. 4 (Inhalation:dust,mist) H332 - Harmful if inhaled.

Full text of hazard classes and H-statements: see section 16

2.2. GHS Label elements, including precautionary statements
GHS-US labelling
Hazard pictograms (GHS-US): !

Signal word (GHS-US): Warning
Hazard statements (GHS-US): H302+H332 - Harmful if swallowed or if inhaled
Precautionary statements (GHS-US):
P261 - Avoid breathing mist, spray, vapours.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area.
P301+P312 - If swallowed: Call a doctor if you feel unwell
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P312 - Call a doctor if you feel unwell
P330 - Rinse mouth.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable
SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-ethylhexyl nitrate</td>
<td>(CAS-No.) 27247-96-7</td>
<td>25 - 30</td>
<td>Flam. Liq. 4, H227, Acute Tox. 4 (Oral), H302, Acute Tox. 4 (Dermal), H312, Acute Tox. 4 (Inhalation), H332, Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</td>
<td>(CAS-No.) 68551-17-7</td>
<td>0.5 - 1.5</td>
<td>Flam. Liq. 4, H227, Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, &lt;2% aromatics</td>
<td>(CAS-No.) 64742-47-8</td>
<td>0.5 - 2.5</td>
<td>Flam. Liq. 4, H227, Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>2-ethylhexan-1-ol</td>
<td>(CAS-No.) 104-76-7</td>
<td>0.1 - 1</td>
<td>Flam. Liq. 4, H227, Acute Tox. 4 (Inhalation), H332, Skin Irrit. 2A, H315, Eye Irrit. 2A, H319, STOT SE 3, H335</td>
</tr>
</tbody>
</table>

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret
Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

Symptoms/effects after ingestion: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


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

5.2. Specific hazards arising from the chemical

Fire hazard: Burning produces irritating, toxic and noxious fumes.

Reactivity: No dangerous reactions known.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid all eye and skin contact and do not breathe vapour and mist. Use personal protective equipment as required. Ensure adequate ventilation.
Lucas Cetane Booster  
Safety Data Sheet  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.1.1. For non-emergency personnel  
Protective equipment: Refer to section 8.2.  
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders  
Protective equipment: Refer to section 8.2.  
Emergency procedures: Ventilate area.

6.2. Environmental precautions  
Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up  
For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections  
Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling  
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Avoid all eye and skin contact and do not breathe vapour and mist.  
Hygiene measures: Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities  
Storage conditions: Keep container closed when not in use.  
Incompatible materials: Sources of ignition. Direct sunlight.  
Storage area: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>Control Parameter</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-ethylhexyl nitrate (27247-96-7)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, &lt;2% aromatics (64742-47-8)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>2-ethylhexan-1-ol (104-76-7)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics (68551-17-7)</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls  
Appropriate engineering controls: Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.  
Environmental exposure controls: Prevent leakage or spillage. Prevent contaminated water run-off.

8.3. Individual protection measures/Personal protective equipment  
Personal protective equipment: Avoid all unnecessary exposure.  
Hand protection: Wear suitable gloves resistant to chemical penetration. nitrile rubber gloves. neoprene gloves.
Eye protection:
Chemical goggles or safety glasses

Respiratory protection:
No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of inadequate ventilation wear respiratory protection. Approved organic vapour respirator. Wear appropriate mask

Other information:
Do not eat, drink or smoke during use.

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>No data available</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</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>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>114.4 °C</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.898</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>21.5 cSt @ 40 °C</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</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
No dangerous reactions known.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide.
### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Likely routes of exposure**
- Inhalation; Skin and eye contact

**Acute toxicity**
- Oral: Harmful if swallowed. Inhalation: dust, mist: Harmful if inhaled.

<table>
<thead>
<tr>
<th>Compound</th>
<th>Toxicity Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lucas Cetane Booster</strong></td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>1647.758 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
<td>4.782 mg/l/4h</td>
</tr>
<tr>
<td><strong>2-ethylhexyl nitrate (27247-96-7)</strong></td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>500 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>1100 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>4500 ppmv/4h</td>
</tr>
<tr>
<td>ATE US (vapours)</td>
<td>11 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
<td>1.5 mg/l/4h</td>
</tr>
<tr>
<td><strong>Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, &lt;2% aromatics (64742-47-8)</strong></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 15000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt;= 3160 mg/kg</td>
</tr>
<tr>
<td><strong>2-ethylhexan-1-ol (104-76-7)</strong></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>2047 mg/kg male</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 3000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>0.89 mg/L (vapour); 5.3 mg/L (vapour (1.1 mg/L) aerosol (4.3 mg/L))</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>2047 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>4500 ppmv/4h</td>
</tr>
<tr>
<td>ATE US (vapours)</td>
<td>11 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
<td>1.5 mg/l/4h</td>
</tr>
<tr>
<td><strong>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics (68551-17-7)</strong></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 15000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt;= 3160 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
- Not classified

**Serious eye damage/irritation**
- Not classified

**Respiratory or skin sensitisation**
- Not classified

**Germ cell mutagenicity**
- Not classified

**Carcinogenicity**
- Not classified

**Reproductive toxicity**
- Not classified

**Specific target organ toxicity (single exposure)**
- Not classified

**Specific target organ toxicity (repeated exposure)**
- Not classified

**Aspiration hazard**
- Not classified

**Symptoms/effects after inhalation**
- Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

**Symptoms/effects after ingestion**
- Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**2-ethylhexyl nitrate (27247-96-7)**
- LC50 fish 1: 2 mg/l 96 h Danio rerio
- NOEC (acute): 1.52 mg/l 96 h Danio rerio
Lucas Cetane Booster
Safety Data Sheet

Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics (64742-47-8)

<table>
<thead>
<tr>
<th></th>
<th>LC50 fish 1</th>
<th>EC50 Daphnia 1</th>
<th>NOEC chronic fish</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&gt; 1000 mg/l</td>
<td>&gt; 1000 mg/l</td>
<td>0.173 mg/l Estimated. Based on growth.</td>
</tr>
</tbody>
</table>

2-ethylhexan-1-ol (104-76-7)

<table>
<thead>
<tr>
<th></th>
<th>LC50 fish 1</th>
<th>NOEC (acute)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>17.1 mg/l 96 h</td>
<td>14 mg/l 96 h</td>
</tr>
</tbody>
</table>

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (68551-17-7)

<table>
<thead>
<tr>
<th></th>
<th>LC50 fish 1</th>
<th>EC50 Daphnia 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&gt; 1000 mg/l</td>
<td>&gt; 1000 mg/l</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Lucas Cetane Booster

Persistence and degradability Not established.

2-ethylhexyl nitrate (27247-96-7)

Persistence and degradability Not readily biodegradable.

Biodegradation 0 % 28 d

Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics (64742-47-8)

Biodegradation 69 % 28 days

2-ethylhexan-1-ol (104-76-7)

Persistence and degradability Readily biodegradable.

12.3. Bioaccumulative potential

Lucas Cetane Booster

Bioaccumulative potential Not established.

2-ethylhexyl nitrate (27247-96-7)

Log Pow 5.24

2-ethylhexan-1-ol (104-76-7)

Log Pow 2.9

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Sewage disposal recommendations Do not dispose of waste into sewer.
Waste disposal recommendations Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description UN3082 Environmentally hazardous substances, liquid, n.o.s. (2-ethylhexyl nitrate), 9, III
UN-No.(DOT) UN3082
Proper Shipping Name (DOT) Environmentally hazardous substances, liquid, n.o.s. 2-ethylhexyl nitrate
Transport hazard class(es) (DOT) 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Packing group (DOT) III - Minor Danger
Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description “Other regulated substances, liquid or solid, n.o.s.”, as appropriate. In addition, for solid materials, special provision B54 applies.
146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.
173 - An appropriate generic entry may be used for this material.
335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as “Environmentally hazardous substances, solid, n.o.s.” UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leakproof when used as bulk packaging.
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H1Z and 31H2Z, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T4 - 2.65 178.274(d)(2) Normal............. 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No limit
DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

Emergency Response Guide (ERG) Number : 171

Other information : 49CFR171.4 - Not regulated in non-bulk containers transported by motor vehicle, rail car, or aircraft.

Transport by sea

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexylnitrate), 9, III, MARINE POLLUTANT
UN-No. (IMDG) : 3082
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IMDG) : 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG) : III - substances presenting low danger
Transport regulations (IMDG) : Combination packagings containing a net quantity per single or inner packaging of 5L or less are not regulated by IMDG, except for the need to meet the general sturdy packaging requirements. IMDG 2.10.2.7 - Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids are not subject to any other provisions of the Code relevant to marine pollutants provided the packagings meet the general packaging provisions of 4.1.1.1.1, 4.1.1.2, and 4.1.1.4-4.1.1.8.
Air transport
Transport document description (IATA) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexyl nitrate), 9, III
UN-No. (IATA) : 3082
Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IATA) : 9 - Miscellaneous Dangerous Goods
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

<table>
<thead>
<tr>
<th>2-ethylhexan-1-ol (104-76-7)</th>
<th>EPA TSCA Regulatory Flag</th>
</tr>
</thead>
<tbody>
<tr>
<td>T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.</td>
<td></td>
</tr>
</tbody>
</table>

15.2. International regulations

CANADA

2-ethylhexyl nitrate (27247-96-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.

Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics (64742-47-8)
Listed on the Canadian DSL (Domestic Substances List) inventory.

2-ethylhexan-1-ol (104-76-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

2-ethylhexyl nitrate (27247-96-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics (64742-47-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

2-ethylhexan-1-ol (104-76-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

2-ethylhexyl nitrate (27247-96-7)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics (64742-47-8)
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on Taiwan National Chemical Inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
15.3. US State regulations

This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

<table>
<thead>
<tr>
<th>Revision date</th>
<th>04/24/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other information</td>
<td>None</td>
</tr>
</tbody>
</table>
Full text of H-statements:

<table>
<thead>
<tr>
<th>H-Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Dermal)</td>
<td>Acute toxicity (dermal), Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Inhalation)</td>
<td>Acute toxicity (inhal.), Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Inhalation:dust,mist)</td>
<td>Acute toxicity (inhalation:dust,mist) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 2</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. 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>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>H227</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

Abbreviations and acronyms:

- ATE: Acute Toxicity Estimate
- CAS (Chemical Abstracts Service) number
- CLP: Classification, Labelling, Packaging.
- EC50: Environmental Concentration associated with a response by 50% of the test population.
- European List of Waste (LoW) code
- GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
- LD50: Lethal Dose for 50% of the test population
- NOEC: No Observable Effect Concentration
- PNEC: Predicted No Effect Level
- PBT: Persistent, Bioaccumulative, Toxic
- STEL: Short Term Exposure Limits
- TWA: Time Weighted Average
Lucas Cetane Booster
Safety Data Sheet

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

Indication of changes:
Transport information

SDS Prepared by: The Redstone Group, LLC
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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.