1. Identification

Product identifier: LPS® CFC Free (Aerosol)

Other means of identification:
- Part Number: 03116

Recommended use: A fast drying industrial cleaning solvent designed to remove soil and other contaminants.

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer:
- Company name: LPS Laboratories, a division of Illinois Tool Works, Inc.
- Address: 4647 Hugh Howell Rd.
- Tel: +1 770-243-8800

In Case of Emergency:
- 1-800-424-9300 (inside U.S.)
- +001 703-527-3887 (outside U.S.)

Website: www.lpslabs.com

2. Hazard(s) identification

Physical hazards:
- Flammable aerosols: Category 1

Health hazards:
- Skin corrosion/irritation: Category 2
- Serious eye damage/eye irritation: Category 2
- Reproductive toxicity (fertility): Category 2
- Specific target organ toxicity, single exposure: Category 3 narcotic effects
- Specific target organ toxicity, repeated exposure: Category 2

OSHA defined hazards: Not classified.

Label elements

Signal word: Danger

Hazard statement: Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure by skin contact. Extremely flammable aerosol. Suspected of damaging fertility or the unborn child.

Precautionary statement

Prevention:
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Response:
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage:
- Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal:
- Dispose of contents/container in accordance with local/regional/national/international regulations.
Material name: LPS® CFC Free (Aerosol)  
SDS US  
697 Version #: 01 Issue date: 05-10-2013  

Hazard(s) not otherwise classified (HNOC)  
Not classified.

Supplemental information  
Precautionary statement  
Prevention  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. These alone may be insufficient to remove static electricity.

Response  
Eliminate all ignition sources if safe to do so.

81.79% of the mixture consists of component(s) of unknown acute oral toxicity. 92.33% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

3. Composition/information on ingredients  
Mixtures  

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Methylpentane</td>
<td>107-83-5</td>
<td>40 - &lt; 50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,3-Dimethylbutane</td>
<td>79-29-8</td>
<td>10 - &lt; 20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-Methylpentane</td>
<td>96-14-0</td>
<td>10 - &lt; 20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropanol</td>
<td>ISOPROPYL ALCOHOL (IPA)</td>
<td>67-63-0</td>
<td>10 - &lt; 20</td>
<td></td>
</tr>
<tr>
<td>2,2-Dimethylbutane</td>
<td>75-83-2</td>
<td>5 - &lt; 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>124-38-9</td>
<td>3 - &lt; 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N-hexane</td>
<td>110-54-3</td>
<td>1 - &lt; 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other components below reportable levels | 5 - < 10 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures  
Inhalation  
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.

Skin contact  
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Eye contact  
Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or Poison Control Center immediately.

Ingestion  
Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed  
Irritation of eyes and mucous membranes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Narcosis. Behavioral changes. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed  
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information  
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

5. Fire-fighting measures  
Suitable extinguishing media  
Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media  
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical  
By heating and fire, harmful vapors/gases may be formed. Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters  
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

Fire-fighting equipment/instructions  
In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.
Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. In the event of fire and/or explosion do not breathe fumes.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use foam to blanket spilled material. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

**Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Use non-sparking tools and explosion-proof equipment.

Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure.

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

**Conditions for safe storage, including any incompatibilities**

Level 3 Aerosol.

Store locked up. Keep away from heat, sparks and open flame. Eliminate sources of ignition.

Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Dioxide (CAS 124-38-9)</td>
<td>PEL</td>
<td>9000 mg/m³</td>
</tr>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>PEL</td>
<td>5000 ppm</td>
</tr>
<tr>
<td>N-hexane (CAS 110-54-3)</td>
<td>PEL</td>
<td>980 mg/m³</td>
</tr>
<tr>
<td>N-hexane (CAS 110-54-3)</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td>N-hexane (CAS 110-54-3)</td>
<td>STEL</td>
<td>1800 mg/m³</td>
</tr>
<tr>
<td>N-hexane (CAS 110-54-3)</td>
<td>STEL</td>
<td>500 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2-Dimethylbutane (CAS 75-83-2)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Material name: LPS® CFC Free (Aerosol)

697  Version #: 01  Issue date: 05-10-2013  SDS US
US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,3-Dimethylbutane (CAS 79-29-8)</td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>2-Methylpentane (CAS 107-83-5)</td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>3-Methylpentane (CAS 96-14-0)</td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Carbon Dioxide (CAS 124-38-9)</td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>30000 ppm</td>
</tr>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td>N-hexane (CAS 110-54-3)</td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>54000 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>30000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9000 mg/m³</td>
</tr>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>STEL</td>
<td>1225 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>980 mg/m³</td>
</tr>
<tr>
<td>N-hexane (CAS 110-54-3)</td>
<td>TWA</td>
<td>180 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

Biological limit values

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices</th>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>40 mg/l</td>
<td>Acetone</td>
<td>Urine</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>N-hexane (CAS 110-54-3)</td>
<td>0.4 mg/l</td>
<td>2,5-Hexanedion without hydrolysis</td>
<td>Urine</td>
<td></td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation
N-hexane (CAS 110-54-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation
N-hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate engineering controls
Explosion-proof general and local exhaust ventilation. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Skin protection
Hand protection
For prolonged or repeated skin contact use suitable protective gloves. Chemical resistant gloves are recommended.

Other
Avoid contact with the skin. Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Respiratory protection
No personal respiratory protective equipment normally required. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards
None known.

General hygiene considerations
When using, do not eat, drink or smoke. 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 and chemical properties

Appearance
Liquid.
Physical state  Gas.
Form  Aerosol.
Color  Clear water-white
Odor  Solvent.
Odor threshold  Not available.
pH  Not available.
Melting point/freezing point  Not available.
Initial boiling point and boiling range  140.9 °F (60.5 °C) dispensed liquid
Flash point  < 1.40 °F (< -17.00 °C) Tag Closed Cup
Evaporation rate  < 1 (Ethyl Ether = 1)
Flammability (solid, gas)  Not available.
Upper/lower flammability or explosive limits
  Flammability limit - lower (%)
  Flammability limit - upper (%)
  Explosive limit - lower (%)
  Explosive limit - upper (%)
Vapor pressure  352.53 mm Hg @ 38°C
Vapor density  ~3 (air = 1)
Relative density  Not available.
Solubility(ies)  < 10 % w/w
Partition coefficient (n-octanol/water)  < 1
Auto-ignition temperature  582.8 °F (306 °C)
Decomposition temperature  Not available.
Viscosity  < 3 cSt @ 25°C
Other information
  Heat of combustion  > 30 kJ/g
  Percent volatile  100 %
  Specific gravity  0.64 - 0.67 @ 20°C
  VOC (Weight %)  96.2 % per U.S, State and Federal Consumer Product Regulations; 669 g/L per SCAQMD Rule 102

10. Stability and reactivity
Reactivity  Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates).
Chemical stability  Risk of ignition. Instability caused by elevated temperatures.
Possibility of hazardous reactions  Hazardous polymerization does not occur.
Conditions to avoid  Avoid temperatures exceeding the flash point.
Hazardous decomposition products  Carbon oxides.

11. Toxicological information
Information on likely routes of exposure
  Ingestion  Based on available data, the classification criteria are not met.
  Inhalation  Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
  Skin contact  Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
  Eye contact  Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation. Defatting of the skin. Irritating to eyes and respiratory system. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>12800 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Dog</td>
<td>4797 mg/kg</td>
</tr>
<tr>
<td>Mouse</td>
<td>3600 mg/kg</td>
<td>4.5 g/kg</td>
</tr>
<tr>
<td>Rabbit</td>
<td>6410 mg/kg</td>
<td>5.03 g/kg</td>
</tr>
<tr>
<td>Rat</td>
<td>5045 mg/kg</td>
<td>4.7 g/kg</td>
</tr>
<tr>
<td>Other</td>
<td>Mouse</td>
<td>1509 mg/kg</td>
</tr>
<tr>
<td>Rat</td>
<td>1099 mg/kg</td>
<td></td>
</tr>
<tr>
<td>N-hexane (CAS 110-54-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>Mouse</td>
<td>48000 mg/l, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>24 mg/kg</td>
</tr>
<tr>
<td>Wistar rat</td>
<td>49 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Skin sensitization

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Based on available data, the classification criteria are not met.

ACGIH Carcinogens

Isopropanol (CAS 67-63-0) A4 Not classifiable as a human carcinogen.

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure

Narcotic effects.

Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on available data, the classification criteria are not met.

Chronic effects

Prolonged exposure may cause chronic effects. Causes damage to organs through prolonged or repeated exposure.

Further information

Symptoms may be delayed.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.
Components | Species | Test Results
--- | --- | ---
Isopropanol (CAS 67-63-0) | Aquatic Fish | LC50 | Bluegill (Lepomis macrochirus) | > 1400 mg/l, 96 hours
N-hexane (CAS 110-54-3) | Aquatic Fish | LC50 | Fathead minnow (Pimephales promelas) | 2.101 - 2.981 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

**Persistence and degradability**
Not inherently biodegradable.

**Bioaccumulative potential**
No data available for this product.

- **Partition coefficient n-octanol / water (log Kow)**
  - LPS® CFC Free (Aerosol): < 1
  - Isopropanol: 0.05
  - 2,3-Dimethylbutane: 3.42
  - 3-Methylpentane: 3.6
  - 2-Methylpentane: 3.74
  - 2,2-Dimethylbutane: 3.82
  - N-hexane: 3.9

**Mobility in soil**
Readily absorbed into soil.

**Other adverse effects**
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazardous waste code**
D001: Waste Flammable material with a flash point <140 F
D003: Waste Reactive material

**Waste from residues / unused products**
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

**DOT**
- **UN number**: UN1950
- **UN proper shipping name**: Aerosols, flammable, MARINE POLLUTANT
- **Transport hazard class(es)**: 2.1
- **Subsidiary class(es)**: Not available.
- **Packing group**: Not available.
- **Special precautions for user**: Read safety instructions, SDS and emergency procedures before handling.
- **Labels required**: 2.1
- **Packaging exceptions**: 306
- **Packaging non bulk**: None
- **Packaging bulk**: None

**IATA**
- **UN number**: UN1950
- **UN proper shipping name**: Aerosols, flammable
- **Transport hazard class(es)**: 2.1
- **Subsidiary class(es)**: -
- **Packing group**: Not available.
- **Environmental hazards**: No
- **Labels required**: Not available.
- **ERG Code**: 2X
- **Special precautions for user**: Read safety instructions, SDS and emergency procedures before handling.

**IMDG**
- **UN number**: UN1950
- **UN proper shipping name**: AEROSOLS, flammable, MARINE POLLUTANT
- **Transport hazard class(es)**: 2.1
Subsidiary class(es) -
Packaging group Not available.
Environmental hazards
  Marine pollutant Yes
Labels required 2.1
EmS F-D, S-U
Special precautions for user
  Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
  Not applicable.

General information
  DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

IATA; IMDG

Marine pollutant

15. Regulatory information

US federal regulations
  This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
  TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
    Not regulated.
  CERCLA Hazardous Substance List (40 CFR 302.4)
    N-hexane (CAS 110-54-3) LISTED
  US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
    Not listed.
  SARA 304 Emergency release notification
    Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
  Hazard categories
    Immediate Hazard - Yes
    Delayed Hazard - Yes
    Fire Hazard - Yes
    Pressure Hazard - Yes
    Reactivity Hazard - No
SARA 302 Extremely hazardous substance: No
SARA 311/312 Hazardous chemical: Yes

Other federal regulations:
- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
  - N-hexane (CAS 110-54-3)
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
  - Not regulated.
- Safe Drinking Water Act (SDWA)
  - Not regulated.
- Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
  - Not listed.
- Food and Drug Administration (FDA)
  - Not regulated.

US state regulations:
- US. Massachusetts RTK - Substance List
  - 2,2-Dimethylbutane (CAS 75-83-2)
  - 2,3-Dimethylbutane (CAS 79-29-8)
  - 2-Methylpentane (CAS 107-83-5)
  - 3-Methylpentane (CAS 96-14-0)
  - Carbon Dioxide (CAS 124-38-9)
  - Isopropanol (CAS 67-63-0)
  - N-hexane (CAS 110-54-3)
- US. New Jersey Worker and Community Right-to-Know Act
  - N-hexane (CAS 110-54-3) 500 lbs
- US. Pennsylvania RTK - Hazardous Substances
  - 2,2-Dimethylbutane (CAS 75-83-2)
  - 2,3-Dimethylbutane (CAS 79-29-8)
  - 2-Methylpentane (CAS 107-83-5)
  - 3-Methylpentane (CAS 96-14-0)
  - Carbon Dioxide (CAS 124-38-9)
  - Isopropanol (CAS 67-63-0)
  - N-hexane (CAS 110-54-3)
- US. Rhode Island RTK
  - Isopropanol (CAS 67-63-0)
  - N-hexane (CAS 110-54-3)
- US. California Proposition 65
  - California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<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>Yes</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 this product complies with the inventory requirements administered by the governing country(s).
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date: 05-10-2013
Version # 01
Further information Not available.
HMIS® ratings
  Health: 1*
  Flammability: 4
  Physical hazard: 2
NFPA ratings
  Health: 1
  Flammability: 3
  Instability: 0
Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.