SAFETY DATA SHEET

1. Identification

Product identifier	LPS® Food Grade Electronic Cleaner

Other means of identification

| Part Number | 58116, M58116 |

Recommended use of the chemical and restrictions on use

| Recommended use | A spray cleaner designed to remove dirt, moisture, dust, flux or oxides from the internal components of electronic or precision equipment such as circuit boards. |
| Restrictions on use | Not available. |

Details of manufacturer or importer

| Manufacturer | Supplier Name | MRO Chem Pty Ltd. |
| Address | Level 19, 644 Chapel Street | South Yarra, Victoria 3141, Australia |
| Tel: | +03 9823 6273 |

In Case of Emergency

| In Case of Emergency | +04 3448 1129 |

2. Hazard(s) identification

Classification of the hazardous chemical

| Physical hazards | Flammable aerosols | Category 2 |
| Gases under pressure | Liquefied gas |
| Health hazards | Skin corrosion/irritation | Category 2 |
| Reproductive toxicity | Category 2 |
| Specific target organ toxicity, single exposure | Category 3 narcotic effects |
| Specific target organ toxicity, repeated exposure (inhalation) | Category 2 (nervous system) |
| Environmental hazards | Hazardous to the aquatic environment, long-term hazard | Category 2 |

Label elements, including precautionary statements

| Hazard symbol(s) |
| Flame | Gas cylinder | Health hazard | Exclamation mark | Environment |

Signal word	Warning

Hazard statement(s)

Flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs (nervous system) through prolonged or repeated exposure by inhalation. Toxic to aquatic life with long lasting effects.
Precautionary statement(s)

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. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves. Use personal protective equipment as required.

Response
IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

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.

Other hazards which do not result in classification
None known.

Supplemental information
None known.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Identity of chemical ingredients</th>
<th>CAS number and other unique identifiers</th>
<th>Concentration of ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), Hydrotreated Light</td>
<td>64742-49-0</td>
<td>60 - 70</td>
<td></td>
</tr>
<tr>
<td>Ethane, 1,1,1,2-tetrafluoro-(hfc-134a)</td>
<td>811-97-2</td>
<td>20 - 30</td>
<td></td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>1 - 10</td>
<td></td>
</tr>
<tr>
<td>N-Hexane</td>
<td>110-54-3</td>
<td>1 - 2</td>
<td></td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>1 - 2</td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact
Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact
Rinse with water. Get medical attention if irritation develops and persists.

Ingestion
Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

Personal protection for first-aid responders
IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Symptoms caused by exposure

Medical attention and special treatment
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media
Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

Specific hazards arising from the chemical
Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Firefighting equipment/instructions**

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

**Hazchem code**

2Y E

**General fire hazards**

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

**6. Accidental release measures**

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

**For non-emergency personnel**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**For emergency responders**

Avoid unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**Environmental precautions**

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. 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. For waste disposal, see section 13 of the SDS.

**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. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

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

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls and personal protection**

**Control parameters**

Follow standard monitoring procedures.

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Australia, National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A) Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) (CAS 811-97-2)</td>
<td>TWA</td>
<td>4240 mg/m³</td>
</tr>
</tbody>
</table>

Material name: LPS® Food Grade Electronic Cleaner

SDS AUSTRALIA

11/41

3 / 11
<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1230 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>983 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
<tr>
<td>N-Hexane (CAS 110-54-3)</td>
<td>TWA</td>
<td>72 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 ppm</td>
</tr>
<tr>
<td>Pentane (CAS 109-66-0)</td>
<td>STEL</td>
<td>2210 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>750 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1770 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>600 ppm</td>
</tr>
</tbody>
</table>

**Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) (CAS 811-97-2)</td>
<td>TWA</td>
<td>4240 mg/m³</td>
</tr>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1230 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>983 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
<tr>
<td>N-Hexane (CAS 110-54-3)</td>
<td>TWA</td>
<td>72 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 ppm</td>
</tr>
<tr>
<td>Pentane (CAS 109-66-0)</td>
<td>STEL</td>
<td>2210 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>750 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1770 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>600 ppm</td>
</tr>
</tbody>
</table>

**US. ACGIH Threshold Limit Values**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>N-Hexane (CAS 110-54-3)</td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Pentane (CAS 109-66-0)</td>
<td>TWA</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

**UK. EH40 Workplace Exposure Limits (WELs)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) (CAS 811-97-2)</td>
<td>TWA</td>
<td>4240 mg/m³</td>
</tr>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1250 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>999 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
<tr>
<td>N-Hexane (CAS 110-54-3)</td>
<td>TWA</td>
<td>72 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 ppm</td>
</tr>
<tr>
<td>Pentane (CAS 109-66-0)</td>
<td>TWA</td>
<td>1800 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>600 ppm</td>
</tr>
</tbody>
</table>

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) (CAS 811-97-2)</td>
<td>TWA</td>
<td>4200 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Material name: LPS® Food Grade Electronic Cleaner

1141  
SDS AUSTRALIA

4 / 11
Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>TWA</td>
<td>500 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</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>
<tr>
<td>Pentane (CAS 109-66-0)</td>
<td>TWA</td>
<td>3000 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Biological limit values

Germany. TRGS 903, BAT List (Biological Limit Values)

<table>
<thead>
<tr>
<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>25 mg/l</td>
<td>Aceton</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>25 mg/l</td>
<td>Aceton</td>
<td>Blood</td>
<td>*</td>
</tr>
<tr>
<td>N-Hexane (CAS 110-54-3)</td>
<td>5 mg/l</td>
<td>2,5-Hexandion plus</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4,5-Dihydroxy-2-hexanon (nach Hydrolyse)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

ACGIH Biological Exposure Indices

<table>
<thead>
<tr>
<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>
</tr>
<tr>
<td></td>
<td>0.4 mg/l</td>
<td>2,5-Hexanedion, without hydrolysis</td>
<td>Urine</td>
<td>*</td>
</tr>
</tbody>
</table>

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

Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation

N-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Observe any medical surveillance requirements. When using do not 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

Physical state

Gas.

Form

Aerosol.

Color

Clear. Colorless.

Odor

Hydrocarbon-like.

Odor threshold

Not available.

pH

Not applicable.
Melting point/freezing point
Not available.

Initial boiling point and boiling range
136.99 °F (58.33 °C) Dispensed liquid.

Flash point
< 1.4 °F (< -17.0 °C) Tag Closed Cup

Evaporation rate
< 1 BuAc (Ethyl Ether = 1)

Flammability (solid, gas)
Flammable gas.

Upper/lower flammability or explosive limits
  Flammability limit - lower (%)
    Not available.
  Flammability limit - upper (%)
    Not available.
  Explosive limit - lower (%)
    Not available.
  Explosive limit - upper (%)
    Not available.

Vapor pressure
352.53 mm Hg @ 38°C

Vapor density
> 1 (air = 1)

Relative density
Not available.

Solubility(ies)
  Solubility (water)
    < 10 %

Partition coefficient
  (n-octanol/water)
    Not available.

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

Viscosity
< 3 cSt

Viscosity temperature
77 °F (25 °C)

Other physical and chemical parameters
  Density
    5.65
  Explosive properties
    Not explosive.
  Heat of combustion
    > 30 kJ/g
  Oxidizing properties
    Not oxidizing.
  Percent volatile
    100 %
  Specific gravity
    0.68
  VOC
    74 % per US State and Federal Consumer Product Regulations

10. Stability and reactivity

Reactivity
The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Conditions to avoid
Heat. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition products
Carbon oxides.

11. Toxicological information

Information on possible routes of exposure
  Inhalation
    May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
  Skin contact
    Causes skin irritation.
  Eye contact
    Direct contact with eyes may cause temporary irritation.
  Ingestion
    Expected to be a low ingestion hazard.
  Symptoms related to exposure
### Acute toxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Isopropanol (CAS 67-63-0)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>16.4 ml/kg, 24 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>4.7 g/kg</td>
</tr>
<tr>
<td><strong>Naphtha (petroleum), Hydrotreated Light (CAS 64742-49-0)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt; 1900 mg/kg, 24 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td><strong>N-Hexane (CAS 110-54-3)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt; 5 ml/kg, 4 Hours</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor</td>
<td>Rat</td>
<td>73860 ppm, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>49 ml/kg</td>
</tr>
<tr>
<td><strong>Pentane (CAS 109-66-0)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor</td>
<td>Rat</td>
<td>&gt; 25.3 mg/l, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
Causes skin irritation.

**Serious eye damage/irritation**
Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**
- **Respiratory sensitization**: Not a respiratory sensitizer.
- **Skin sensitization**: This product is not expected to cause skin sensitization.

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

**Carcinogenicity**
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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

**Reproductive toxicity**
Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure**
May cause drowsiness and dizziness.

**Specific target organ toxicity - repeated exposure**
May cause damage to organs (nervous system) through prolonged or repeated exposure by inhalation.

**Aspiration hazard**
Not likely, due to the form of the product.

**Chronic effects**
May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

**Other information**
Symptoms may be delayed.

### 12. Ecological information

**Ecotoxicity**
Toxic to aquatic life with long lasting effects.
<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>Aquatic</td>
<td>Isopropanol (LC50) Bluegill (Lepomis macrochirus) &gt; 1400 mg/l, 96 hours</td>
</tr>
<tr>
<td>N-Hexane (CAS 110-54-3)</td>
<td>Aquatic</td>
<td>N-Hexane (LC50) Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
- **Partition coefficient**
  - n-octanol / water (log K<sub>ow</sub>)
    - Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) 1.06
    - Isopropanol 0.05
    - N-Hexane 3.9
    - Pentane 3.39

Mobility in soil
No data available for this product.

Other adverse effects
None known.

**13. Disposal considerations**

**Disposal methods**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. 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.

**Residual waste**
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**
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

**14. Transport information**

**ADG**
- **UN number** 1950
- **UN proper shipping name** Aerosols, flammable
- **Transport hazard class(es)** Class 2.1
  - Subsidiary risk
  - Packing group
  - Environmental hazards
  - Hazchem code
  - Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**RID**
- **UN number** 1950
- **UN proper shipping name** Aerosols, flammable
- **Transport hazard class(es)**
  - Class 2.1
  - Subsidiary risk
  - Label(s) 2.1
  - Packing group
  - Environmental hazards
  - Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IATA**
- **UN number** 1950
- **UN proper shipping name** Aerosols, flammable
- **Transport hazard class(es)**
  - Class 2.1
  - Subsidiary risk
  - Label(s) 2.1

Material name: LPS® Food Grade Electronic Cleaner

SDS AUSTRALIA

1141

8 / 11
Material name: LPS® Food Grade Electronic Cleaner

15. Regulatory information

Safety, health and environmental regulations

National regulations
This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

Australia Medicines & Poisons Appendix E
HYDROCARBONS, LIQUID (CAS 110-54-3)

Australia Medicines & Poisons Schedule 5
HYDROCARBONS, LIQUID, INCLUDING KEROSENE, DIESEL (DISTILLATE), MINERAL TURPENTINE, WHITE PETROLEUM SPIRIT, TOLUENE, XYLENE AND LIGHT MINERAL AND PARAFFIN OILS (BUT EXCLUDING THEIR DERIVATIVES) (CAS 110-54-3)

Australia National Pollutant Inventory (NPI): Threshold quantity

N-Hexane (CAS 110-54-3) 10 TONNES/YR Threshold Category: 1

High Volume Industrial Chemicals (HVIC)

Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) (CAS 811-97-2) 1000 - 9999 TONNES See the regulation for additional information.

Isopropanol (CAS 67-63-0) 1000 - 9999 TONNES See the regulation for additional information.

Naphtha (petroleum), Hydrotreated Light (CAS 64742-49-0) 1000 - 9999 TONNES See the regulation for additional information.
N-Hexane (CAS 110-54-3) 10000 - 99999 TONNES See the regulation for additional information.
Pentane (CAS 109-66-0) 10000 - 99999 TONNES See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)
- Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) (CAS 811-97-2) 9

National Pollutant Inventory (NPI) substance reporting list
- Not listed.

Prohibited Carcinogenic Substances
- Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)
- Not listed.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)
- Not listed.

Restricted Carcinogenic Substances
- Not regulated.

International regulations
- Stockholm Convention
  - Not applicable.
- Rotterdam Convention
  - Not applicable.
- Kyoto protocol
  - Not applicable.
- Montreal Protocol
  - Not applicable.
- Basel Convention
  - Not applicable.

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 that all components of this product comply 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

Issue date 11-15-2016
Disclaimer

ITW Pro Brands cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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.