SAFETY DATA SHEET

1. Identification

Product identifier LPS® Micro-X NU

Other means of identification

Part Number 06616, M06616

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

Manufacturer

Company name ITW Pro Brands
Address 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)
Website http://www.lpslabs.com
E-mail lpssds@itwprobrands.com

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) Pressurized container: May burst if heated. Pressurized container: May burst if heated. Pressurized container: May burst if heated. 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**
Specific treatment (see this label). IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF INHALED: 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. 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**
85.94, 81.79% of the mixture consists of component(s) of unknown acute oral toxicity.

### 3. Composition/information on ingredients

#### Mixture

<table>
<thead>
<tr>
<th>Identity of chemical ingredients</th>
<th>CAS number and other unique identifiers</th>
<th>Concentration of ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Methylpentane</td>
<td>107-83-5</td>
<td>30 - 40</td>
</tr>
<tr>
<td>Ethane, 1,1,1,2-Tetrafluoro-(HFC-134a)</td>
<td>811-97-2</td>
<td>20 - 30</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>1 - 10</td>
</tr>
<tr>
<td>N-hexane</td>
<td>110-54-3</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

### 4. First-aid measures

#### Description of necessary 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.

In case of fire: Stop leak if safe to do so. 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.

Flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

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.

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 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 emergency responders
Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. 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. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas. 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.

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.

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. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage.

Follow standard monitoring procedures.

<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></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Material name: LPS® Micro-X NU

SDS AUSTRALIA

583

3 / 11
### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

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

### US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2-Methylpentane (CAS 107-83-5)</strong></td>
<td>STEL 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA 500 ppm</td>
</tr>
<tr>
<td><strong>Isopropanol (CAS 67-63-0)</strong></td>
<td>STEL 400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA 200 ppm</td>
</tr>
<tr>
<td><strong>N-Hexane (CAS 110-54-3)</strong></td>
<td>STEL 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA 1000 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) (CAS 811-97-2)</strong></td>
<td>TWA 4240 mg/m³</td>
</tr>
<tr>
<td><strong>Isopropanol (CAS 67-63-0)</strong></td>
<td>STEL 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA 500 ppm</td>
</tr>
<tr>
<td><strong>N-Hexane (CAS 110-54-3)</strong></td>
<td>TWA 1000 ppm</td>
</tr>
<tr>
<td><strong>Pentane (CAS 109-66-0)</strong></td>
<td>TWA 1000 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>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2-Methylpentane (CAS 107-83-5)</strong></td>
<td>TWA 1800 mg/m³</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>500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4200 mg/m³</td>
</tr>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>TWA</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>N-Hexane (CAS 110-54-3)</td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Pentane (CAS 109-66-0)</td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

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>N-Hexane (CAS 110-54-3)</td>
<td>5 mg/l</td>
<td>2,5-Hexandion plus 4,5-Dihydroxy-2-hexanon (nach Hydrolyse)</td>
<td>Urine</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>N-Hexane (CAS 110-54-3)</td>
<td>0.4 mg/l</td>
<td>2,5-Hexanedione, 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

Wear appropriate chemical resistant gloves.

Hand protection

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

Other

In case of insufficient ventilation, wear suitable respiratory equipment.

Respiratory protection

Wear appropriate thermal protective clothing, when necessary.

Thermal hazards

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 or nearly colorless.

Odor: Mild.

Odor threshold: Not established

pH: Not available.

Melting point/freezing point: -198.4 °F (-128 °C) estimated

Initial boiling point and boiling range: 140.9 °F (60.5 °C) Dispensed liquid

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

Evaporation rate: < 1 BuAc (Ethyl Ether = 1)

Flammability (solid, gas): Flammable gas.

Upper/lower flammability or explosive limits:
- Flammability limit - lower (%): 0.6 %
- Flammability limit - upper (%): 7 %
- Explosive limit - lower (%): Not available.
- Explosive limit - upper (%): Not available.

Vapor pressure: 352.53 mm Hg @ 38ºC

Vapor density: > 1 (air = 1)

Relative density: Not available.

Solubility(ies):
- Solubility (water): < 10 % by weight

Partition coefficient (n-octanol/water): Not established

Auto-ignition temperature: 582.8 °F (306 ºC)

Decomposition temperature: Not Established

Viscosity: < 3 cSt @ 25ºC

Other physical and chemical parameters:
- Explosive properties: Not explosive.
- Heat of combustion: > 30 kJ/g
- Oxidizing properties: Not oxidizing.
- Percent volatile: 100 %
- Specific gravity: 0.8 - 0.82 @ 20°C
- VOC: 74 % per State & Federal Consumer Product Regulations; 600 g/L per SCAQMD Rule 102

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. Avoid temperatures exceeding the flash point. Contact with 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
Narcotic effects.

Skin corrosion/irritation
Causes skin irritation.

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

Respiratory or skin 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.

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

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

Bioaccumulative potential
- Partition coefficient
  - n-octanol / water (log Kow)
    - 2-Methylpentane: 3.74
    - Ethane, 1,1,1,2-Tetrafluoro-(HFC-134a): 1.06
    - Isopropanol: 0.05
    - N-hexane: 3.9
    - Pentane: 3.39

Mobility in soil
This product is miscible in water. No data available for this product.

Other adverse effects
The product contains volatile organic compounds which have a photochemical ozone creation potential.

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).
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**: Not available.
  - **Environmental hazards**: Not available.
  - **Hazchem code**: 2YE
  - **Special precautions for user**: Not available.

**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**: Not available.
  - **Environmental hazards**: No.
  - **Special precautions for user**: Not available.

**IATA**

- **UN number**: 1950
- **UN proper shipping name**: Aerosols, flammable
- **Transport hazard class(es)**:
  - **Class**: 2.1
  - **Subsidiary risk**: -
  - **Packing group**: Not available.
  - **Environmental hazards**: No.
  - **ERG Code**: 2X
  - **Special precautions for user**: Not available.
  - **Other information**:
    - **Passenger and cargo aircraft**: Allowed with restrictions.
    - **Cargo aircraft only**: Allowed with restrictions.

**IMDG**

- **UN number**: 1950
- **UN proper shipping name**: AEROSOLS, flammable (Hexanes), MARINE POLLUTANT
- **Transport hazard class(es)**:
  - **Class**: 2.1
  - **Subsidiary risk**: -
  - **Label(s)**: 2.1
  - **Packing group**: Not available.
  - **Environmental hazards**: Yes
  - **Marine pollutant**: Yes
  - **EmS**: F-D, S-U
  - **Special precautions for user**: Not available.
  - **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**: Not applicable.
IMDG Regulated Marine Pollutant. Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

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 A
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E
N-hexane (CAS 110-54-3)

Australia Medicines & Poisons Appendix F
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I
Poisons schedule number not allocated.
Australia Medicines & Poisons Appendix J
Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 10
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5
N-hexane (CAS 110-54-3)

Australia Medicines & Poisons Schedule 6
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9
Poisons schedule number not allocated.

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.
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>Taiwan</td>
<td>Taiwan Toxic Chemical Substances (TCS)</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** 02-13-2018

**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.

**Revision information**

Composition / Information on Ingredients: Disclosure Overrides
GHS: Qualifiers