MATERIAL SAFETY DATA SHEET
NON-FLAMMABLE CONTACT CLEANER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: NON-FLAMMABLE CONTACT CLEANER
PRODUCT NO.: CCL
APPLICATION: Cleaning Product
SUPPLIER: H K WENTWORTH PTY LIMITED
P.O. BOX 339
BROOKVALE, NSW 2100
AUSTRALIA
TEL: 02 9938 1566
FAX: 02 9938 1467
GENERAL MANAGER

EMERGENCY TELEPHONE: Tel: 029938 1566 between 8.30am and 5.00pm EST
PROPER SHIPPING NAME: AEROSOLS

2 HAZARDS IDENTIFICATION

RISK PHRASES
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES
A1 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
S2 Keep out of the reach of children.
S23 Do not breathe vapour/spray.
S36/37 Wear suitable protective clothing and gloves.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.

The above phrases are the risks associated with the product

ENVIRONMENT
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements.

PHYSICAL AND CHEMICAL HAZARDS
Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

STATEMENT OF HAZARDOUS NATURE
HAZARDOUS SUBSTANCE (According to criteria of NOHSC). DANGEROUS GOODS (According to ADG Code).

DG CLASS
Class 2: Gases

PACKING GROUP: N/A
UN NO.: 1950

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content %</th>
<th>Classification (67/548)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A MIXTURE OF: (R,R) -1,1,1,2,2,3,4,5,5,5-DECAFLUOROPENTANE, (S,S) -1,1,1,2,2,3,4,5,5,5-DECAFLUOROPENTANE</td>
<td>420-640-8</td>
<td>-</td>
<td>60-80%</td>
<td>R52/53</td>
</tr>
</tbody>
</table>
NON-FLAMMABLE CONTACT CLEANER

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>C Islanders</th>
<th>TWA</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,2-TETRAFLUOROETHANE R134A</td>
<td>212-377-0</td>
<td>811-97-2</td>
<td>10-30%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHANOL</td>
<td>200-659-6</td>
<td>67-56-1</td>
<td>1-5%</td>
<td></td>
<td>F;R11 T;R23/24/25,R39/23/24/25</td>
</tr>
<tr>
<td>DIMETHYL ETHER</td>
<td>204-065-8</td>
<td>115-10-6</td>
<td>1-5%</td>
<td></td>
<td>F+;R12</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases is Displayed in Section 16

COMPOSITION COMMENTS
Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels. Ingredients are registered on AICS.

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN
Treat symptomatically.

INHALATION
Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth, and fresh air.

INGESTION
Do not induce vomiting! Never make an unconscious person vomit or drink fluids! Remove victim immediately from source of exposure. Get medical attention immediately! Provide rest, warmth, and fresh air.

SKIN CONTACT
Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT
Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES
Use water to keep fire exposed containers cool and disperse vapours. Containers close to fire should be removed or cooled with water.

UNUSUAL FIRE & EXPLOSION HAZARDS
Aerosol cans may explode in a fire.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS
Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Avoid spilling, skin, and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS
Store in tightly closed original container in a dry, cool, and well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-TETRAFLUOROETHANE R134A</td>
<td>ES-TWA</td>
<td>1000 ppm</td>
<td>4240 mg/m3</td>
<td></td>
</tr>
<tr>
<td>DIMETHYL ETHER</td>
<td>ES-TWA</td>
<td></td>
<td></td>
<td>mg/m3</td>
</tr>
<tr>
<td>METHANOL</td>
<td>ES-TWA</td>
<td>200 ppm</td>
<td>262 mg/m3</td>
<td>250 ppm 328 mg/m3</td>
</tr>
</tbody>
</table>
NON-FLAMMABLE CONTACT CLEANER

INGREDIENT COMMENTS
Australian exposure limits are: LT= ES-TWA and ST= ES STEL

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES
Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

HAND PROTECTION
Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION
Wear approved chemical safety goggles where eye exposure is reasonably probable. If risk of splashing, wear safety goggles or face shield.

OTHER PROTECTION
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES
DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>APPEARANCE</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOUR</td>
<td>Colourless</td>
</tr>
<tr>
<td>ODOUR</td>
<td>No characteristic odour.</td>
</tr>
<tr>
<td>SOLUBILITY</td>
<td>Immiscible with water</td>
</tr>
<tr>
<td>BOILING POINT (°C)</td>
<td>&gt;55 (&gt;131 F)</td>
</tr>
<tr>
<td>MELTING POINT (°C)</td>
<td>-80 (-112 F)</td>
</tr>
<tr>
<td>RELATIVE DENSITY</td>
<td>1.37 - 1.40 @ 20 °c (68 F)</td>
</tr>
<tr>
<td>VAPOUR PRESSURE</td>
<td>30 kPa @ 20 °c (68 F)</td>
</tr>
</tbody>
</table>

10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions.

CONDITIONS TO AVOID
Avoid contact with acids and oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

11 TOXICOLOGICAL INFORMATION

INHALATION
Harmful by inhalation. May cause irritation to the respiratory system.

INGESTION
Harmful if swallowed.

SKIN CONTACT
Harmful in contact with skin. Irritating to skin.

EYE CONTACT
Irritating to eyes.

TARGET ORGS
Skin  Eyes  Respiratory system, lungs

Name          METHANOL
Toxic Dose 1 - LD 50  9100 mg/kg (oral rat)
NON-FLAMMABLE CONTACT CLEANER

Toxic Conc. - LC 50 145000 ppm/4h (inh-rat)
Name DIMETHYL ETHER

ECOTOXICITY
No negative effects on the aquatic environment are known.

Name METHANOL
LC 50, 96 Hrs, Fish mg/l 10800
EC 50, 48 Hrs, Daphnia, mg/l 24500
IC 50, 72 Hrs, Algae, mg/l 8000

Mobility
The product is soluble in water.

Bioaccumulative Potential
The product is not bioaccumulating.

Name DIMETHYL ETHER
A MIXTURE OF: (R,R)-1,1,1,2,2,3,4,5,5,5-DECAFLUOROPENTANE, (S,S)-1,1,1,2,2,3,4,5,5,5-DECAFLUOROPENTANE

DISPOSA L CONSIDERATIONS

DISPOSAL METHODS
Dispose of waste and residues in accordance with local authority requirements.

TRANSPORT INFORMATION

PROPER SHIPPING NAME AEROSOLS
ADG CLASS Class 2.2: Non-flammable non-toxic gases
ENVIRONMENTALLY No.
HAZARDOUS SUBSTANCE/MARINE POLLUTANT
UN NO. 1950
ADG CLASS NO. 2
DG CLASS Class 2: Gases
PACKING GROUP N/A
TUNNEL RESTRICTION CODE (E)
ADG LABEL NO. 2.2
UN NO. SEA 1950
IMDG CLASS 2.2
IMDG PACK GR. N/A
EMS F-D, S-U
UN NO. AIR 1950
AIR CLASS 2.2
AIR PACK GR. N/A

REGULATORY INFORMATION

LABELLING
NON-FLAMMABLE CONTACT CLEANER

Harmful

CONTAINS
METHANOL

RISK PHRASES
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R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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S2 Keep out of the reach of children.
S23 Do not breathe vapour/spray.
S36/37 Wear suitable protective clothing and gloves.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.

POISONS SCHEDULE NUMBER
none

NATIONAL REGULATIONS AND REFERENCES
National Model Regulations for the Control of Workplace Hazardous Substances.
National Code of Practice for the Control of Workplace Hazardous Substances.
National Code of Practice for the Labelling of Workplace Substances.
National Code of Practice for the Preparation of Material Safety Data Sheets.
Approved Criteria for Classifying Hazardous Substances.
Exposure Standards for Atmospheric Contaminants in the Occupational Environment.

16 OTHER INFORMATION

ISSUED BY
Helen O'Reilly

REV. NO./REPL. SDS GENERATED
NOVEMBER 2010 6 10331

RISK PHRASES IN FULL
R12 Extremely flammable.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R11 Highly flammable.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

DISCLAIMER
This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.