



## 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.** ECCL200

**APPLICATION** Cleaning Product

**SUPPLIER** ELECTROLUBE. A division of  
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#### 2 HAZARDS IDENTIFICATION

Harmful by inhalation, in contact with skin and if swallowed.

Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**CLASSIFICATION** Xn;R20/21/22, R68/20/21/22. R52/53.

#### 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.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
DECAFLUOROPENTANE	420-640-8	138495-42-8	60-80%	R52/53.
1,1,1,2-TETRAFLUOROETHANE R134A	212-377-0	811-97-2	10-30%	-
METHANOL	200-659-6	67-56-1	1-5%	F;R11 T;R23/24/25,R39/23/24/25
1,1,DIFLUOROETHANE R152A	200-866-1	75-37-6	1-5%	F+;R12.

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

#### COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

#### 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.

## NON-FLAMMABLE CONTACT CLEANER

### 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

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
METHANOL	WEL	200 ppm(Sk)	266 mg/m3(Sk)	250 ppm(Sk)	333 mg/m3(Sk)	

WEL = Workplace Exposure Limit.

### 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 Workplace 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.

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### 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

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	No characteristic odour.		
SOLUBILITY	Immiscible with water		
BOILING POINT (°C)	>55 (>131 F)	MELTING POINT (°C)	-80 (-112 F)
RELATIVE DENSITY	1.37 - 1.40 @ 20 °c (68 F)	VAPOUR PRESSURE	30 kPa @ 20 °c (68 F)

### 10 STABILITY AND REACTIVITY

#### STABILITY

Stable under normal temperature conditions.

#### CONDITIONS TO AVOID

Avoid contact with acids and oxidising substances.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

### 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 ORGANS

Skin. Eyes. Respiratory system, lungs.

Name	METHANOL
Toxic Dose 1 - LD 50	9100 mg/kg (oral rat)
Toxic Conc. - LC 50	145000 ppm/4h (inh-rat)
Name	DECAFLUOROPENTANE
Toxic Dose 1 - LD 50	>5000 mg/kg (oral rat)
Toxic Conc. - LC 50	11,100 ppm/4h (inh-rat)

### 12 ECOLOGICAL INFORMATION

#### 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.

#### Bioaccumulation potential

The product is not bioaccumulating.

Name	DECAFLUOROPENTANE
LC 50, 96 Hrs, FISH mg/l	13.9-27.2
EC 50, 48 Hrs, DAPHNIA, mg/l	11.7

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#### 13 DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS**

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

#### 14 TRANSPORT INFORMATION



<b>UK ROAD CLASS</b>	2	<b>UK ROAD PACK GR.</b>	N/A
<b>PROPER SHIPPING NAME</b>	AEROSOLS	<b>ADR CLASS</b>	Class 2: Gases
<b>UN NO. ROAD</b>	1950	<b>ADR LABEL NO.</b>	2.2
<b>ADR CLASS NO.</b>	2	<b>RID CLASS NO.</b>	2
<b>ADR PACK GROUP</b>	N/A	<b>UN NO. SEA</b>	1950
<b>CEFIC TEC(R) NO.</b>	20G5A	<b>IMDG PACK GR.</b>	N/A
<b>RID PACK GROUP</b>	N/A	<b>MFAG</b>	See Guide
<b>IMDG CLASS</b>	2.2	<b>UN NO. AIR</b>	1950
<b>EMS</b>	F-D, S-U	<b>AIR PACK GR.</b>	N/A
<b>MARINE POLLUTANT</b>	No.		

#### 15 REGULATORY INFORMATION

**SYMBOLS**



Harmful

**CONTAINS**

METHANOL

**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	Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2	Do not spray on a naked flame or any incandescent material.
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.

**UK REGULATORY REFERENCES**

The Control of Substances Hazardous to Health Regulations 1988.  
 Chemicals (Hazard Information & Packaging) Regulations.

**ENVIRONMENTAL LISTING**

Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980. Rivers (Prevention of Pollution) Act 1961.

## NON-FLAMMABLE CONTACT CLEANER

### EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

System of specific information relating to Dangerous Preparations. 2001/58/EC.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

### APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

### GUIDANCE NOTES

Workplace Exposure Limits EH40.

## 16 OTHER INFORMATION

### REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

### ISSUED BY

Helen O'Reilly

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**REV. NO./REPL. SDS** 5

**GENERATED**

**SDS NO.** 10331

### RISK PHRASES IN FULL

R11	Highly flammable.
R12	Extremely 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.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### DISCLAIMER

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