

SAFETY DATA SHEET

MINIMAL CHARGING FREEZER

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME: MINIMAL CHARGING FREEZER

PART No.: EMCF200/400

SUPPLIER: ELECTROLUBE. A division of HK WENTWORTH LTD
KINGSBURY PARK, MIDLAND ROAD
SWADLINCOTE
DERBYSHIRE, DE11 0AN
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2. COMPOSITION/INFORMATION ON INGREDIENTS:

NAME	EINECS Nr.:	CLASSIFICATION	CONTENT
CAS No.: 1,1,DIFLUOROETHANE R152A 75-37-6	200-866-1	Fx R-12	10-30 %

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

3. HAZARDS IDENTIFICATION:

Not regarded as a health or environmental hazard under current legislation.

4. FIRST AID MEASURES:

INHALATION: Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION: DO NOT INDUCE VOMITING!
Rinse mouth thoroughly.

SKIN: Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYES: 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: This material is not flammable. Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Move container from fire area if it can be done without risk.

UNUSUAL FIRE & EXPLOSION HAZARDS: Aerosol cans may explode in fires.

6. ACCIDENTAL RELEASE MEASURES:

SPILL CLEANUP METHODS: Absorb in vermiculite, dry sand or earth and place into containers.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS: Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS: Store at moderate temperatures in dry, well ventilated area.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

VENTILATION: No particular ventilation requirements.

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

HYGIENIC WORK PRACTICES: Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. No eating or drinking while working with this material. **DO NOT SMOKE IN WORK AREA!**

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Aerosol. Liquid.

COLOUR: Colourless.

ODOUR/TASTE: Characteristic.

BOILING POINT (°C, interval): -26.5

Pressure:

DENSITY/SPECIFIC GRAVITY (g/ml): 1.13

Temperature (°C): 25

BULK DENSITY: 1130

VAPOUR PRESSURE: 4490 Pa

Temperature (°C): 20

VOLATILITY DESCRIPTION: Volatile.

SOLUBILITY DESCRIPTION: Insoluble in water.

AUTO IGNITION TEMP. (°C): > 750

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Avoid heat, flames and other sources of ignition. Avoid contact with acids and alkalies.

HAZARDOUS DECOMP. PRODUCTS: Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION:

HEALTH HAZARDS, GENERAL: No specific health warnings noted.

INHALATION: High concentrations of vapours may irritate respiratory system and lead to headache,

fatigue, nausea and vomiting.

SKIN: Contact with liquid form may cause frostbite.

OTHER HEALTH EFFECTS: This substance has no evidence of carcinogenic properties.

12. ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION: Not regarded as dangerous for the environment.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS: Empty containers must not be burned because of explosion hazard. Dispose of in accordance with Local Authority requirements.

14. TRANSPORT INFORMATION:

LABEL FOR CONVEYANCE:



UN No. ROAD:	1950
UK ROAD TRANSPORT CLASS:	2.2
UK ROAD PACK GR.:	Not Applicable
ADR CLASS No.:	2.2
ADR CLASS:	Division 2.2: Nonflammable, nontoxic gases.
ADR ITEM No.:	Not Applicable
ADR MARGINAL:	2201
ADR LABEL No.:	2.2
CEFIC TEC(R) No.:	20G5A,20G50
PROPER SHIPPING NAME I:	AEROSOLS
RID CLASS No.:	2.2
RID ITEM No.:	Not Applicable
UN No. SEA:	1950
IMDG CLASS:	2.2
IMDG PAGE No.:	9022
IMDG PACK GR.:	Not Applicable
EmS No.:	F-E; S-U
MFAG TABLE No.:	See Guide
MARINE POLLUTANT:	No.
UN No., AIR:	1950

ICAO CLASS: 2.2
AIR PACK GR.: Not Applicable

15. REGULATORY INFORMATION:

NC Not classified

RISK PHRASES: Not classified.

SAFETY PHRASES: SPECIAL PROVISIONS ON THE LABELLING OF AEROSOL DISPENSERS.
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
 Keep out of the reach of children.
 Keep away from sources of ignition - No smoking.
 X % by mass of the content are flammable.

UK REGULATORY REFERENCES: Petroleum (Consolidation) Act, as amended 1984 SI 1244. Highly Flammable Liquid Regulations 1972. Chemicals (Hazard Information & Packaging) Regulations 1993.

ENVIRONMENTAL LISTING: Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES: System of specific information relating to Dangerous Preparations. 91\155. Dangerous Preparations Directive 88\379.

APPROVED CODE OF PRACTICE: Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES: Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16. OTHER INFORMATION:

USER NOTES: CN No 29033010

REVISION COMMENTS: Revised in accordance with CHIP3 and EU Directive 1999/45/EC

ISSUED BY: Helen O'Reilly

REVISION DATE: MAY 2003

REV. No./REPL. SDS GENERATED: 0

SDS No.: 10452

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 unless specified in the text. The information contained 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 guidance for the safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification

R-PHRASES (Full Text): R-12 Extremely flammable.