

SAFETY DATA SHEET MINIMAL CHARGING FREEZER

1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME MINIMAL CHARGING FREEZER
PRODUCT NO. EMCF200/400
APPLICATION Manufacture of electrical equipment
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

2 HAZARDS IDENTIFICATION

HAZARD ID

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

HAZARD ID 2

The above phrases are the risks associated with the product

STATEMENT OF HAZARDOUS NATURE

DANGEROUS GOODS (According to ADG Code). NON-HAZARDOUS SUBSTANCE (According to criteria of NOHSC).

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

DG CLASS

Division 2.2: Non-flammable, non-toxic gases.

PACKING GROUP Not Applicable

UN NO. 1950

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
1,1,1,2-TETRAFLUOROETHANE R134A	212-377-0	811-97-2	60-100%	-
1,1,DIFLUOROETHANE R152A	200-866-1	75-37-6	10-30%	F+;R12.

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. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly.

SKIN CONTACT

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

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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

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

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 a fire.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP 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/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
1,1,1,2-TETRAFLUOROETHANE R134A	ES-TWA	1000 ppm	4240 mg/m3		

INGREDIENT COMMENTS

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

ENGINEERING MEASURES

No particular ventilation requirements.

OTHER PROTECTION

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

HYGIENE MEASURES

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. When using do not eat, drink or smoke. DO NOT SMOKE IN WORK AREA!

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Aerosol Liquid		
COLOUR	Colourless		
ODOUR	Characteristic		
VOLATILITY DESCRIPTION	Volatile.		
SOLUBILITY	Insoluble in water		
BOILING POINT (°C)	-26.5	RELATIVE DENSITY	1.13 @ 25 °c
BULK DENSITY	1130	VAPOUR PRESSURE	4490 Pa @ 20 °c
AUTO IGNITION TEMPERATURE (°C)	> 750		

10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with acids and alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Carbon monoxide (CO). Hydrogen fluoride (HF). Carbonyl fluoride

11 TOXICOLOGICAL INFORMATION

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GENERAL INFORMATION

No specific health warnings noted.

INHALATION

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

Other Health Effects

This substance has no evidence of carcinogenic properties.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



UK ROAD CLASS	2.2		
PROPER SHIPPING NAME	AEROSOLS		
ADG CLASS			
Class 2.2: Non-flammable non-toxic gases			
UN NO.	1950	UK ROAD PACK GR.	Not Applicable
ADR CLASS NO.	2.2	DG CLASS	Division 2.2: Non-flammable, non-toxic gases.
PACKING GROUP	Not Applicable	ADR LABEL NO.	2.2
CEFIC TEC(R) NO.	20G5A,	RID CLASS NO.	2.2
RID PACK GROUP	Not Applicable	UN NO. SEA	1950
IMDG CLASS	2.2	IMDG PAGE NO.	9022
IMDG PACK GR.	Not Applicable	EMS	F-E; S-U
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	1950	AIR CLASS	2.2
AIR PACK GR.	Not Applicable		

15 REGULATORY INFORMATION

RISK PHRASES

NC Not classified.

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

GUIDANCE NOTES

Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003 (1995)]

NATIONAL REGULATIONS

National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC:1005(1994)]

National Code of Practice for the Control of Workplace Hazardous Substances [NOHSC:2007(1994)]

National Code of Practice for the Preparation of Material Safety Datasheets [NOHSC:2011(2003)]

MINIMAL CHARGING FREEZER

Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004) and List of Designated Hazardous Substances
POISONS SCHEDULE NUMBER NONE

16 OTHER INFORMATION

REVISION DATE NOVEMBER 2007
REV. NO./REPL. SDS GENERATED 0
SDS NO. 10527
RISK PHRASES IN FULL
R12 Extremely flammable.

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.