	SAFETY INFORMATION SHEET	Date of issue: Date of revision:
	Trade Name: Quick-Freeze / Super Freeze	Date of printing:

1. Composition/Identification of the responsible on the market

Productname: Quick-Freeze / Super-Freeze
Product Description:
Article-No.:

2. Composition/Product identification

Chemical characterization

Hazardous ingredients:

INGREDIENT NAME	CAS No.	CONTENTS (Class)	HEALTH (R No.)	RISK
1,1,1,2-TETRAFLUOROETHANE	811-97-2	100 %	Not classified	

3. Dangers identification

Hazards identification: Pressurised Container
Solvent abuse can kill instantly.

4. FIRST AID INSTRUCTIONS

General indications: Move the exposed person to fresh air at once.
After eyes contact: Promptly wash eyes with lots of water while lifting the eyelids. Continue to rinse for at least 15 minutes and get medical attention
After skin contact: Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.
After Inhalation: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.
Ingestion: Rinse mouth thoroughly. Do not induce vomiting. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use any extinguishing media appropriate to surrounding fire.
Special fire fighting procedures: Water may be effective in keeping fire-exposed containers cool. Warn fire fighters that aerosols are involved
Unusual fire & explosion hazards: May explode in a fire.
Hazardous decomposition products: Decomposes on contact with flames and hot surfaces to produce hydrofluoric acid and Fluorophosgene.

6. MEASURES IN CASE OF ACCIDENTAL OUTLOW


Methods for cleaning/taking up: Allow to evaporate. Ventilate well.

7. HANDLING AND STORAGE

Handling: Read and follow manufacturer's recommendations.
Advice on protection against fire and explosion:
Requirements for storage rooms and vessels: Store at moderate temperatures in dry, well-ventilated area. Protect from sunlight and do not expose to temperatures exceeding 50°C.

8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION

INGREDIENT NAME	CAS No.	STD	LT EXP (8 hrs)	ST EXP (10 min)
1,1,1,2-TETRAFLUOROETHANE	811-97-2	OEL	1000 ppm	
Eyes protection:	Wear splash-proof eye goggles to prevent any possibility of eye contact.			
ventilation:	No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation. If, following workplace assessment, OEL is likely to be exceeded due to use where natural ventilation is insufficient suitable respirator must be worn.			

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: aerosol FLASH POINT None None Flammable in air.
VAPOUR PRESSURE 5.7 bar at 20 °C 12.15 bar at 50 °C SG 1.21 at 20 °C pH Neutral

10. STABILITY AND REAKTIVITY

Stability: Normal stable
Conditions to be avoided: Avoid heat, flames or any condition that may cause container to become heated. Decomposes on contact with flames and hot surfaces to produce hydrofluoric acid and Fluorophosgene. Avoid contact with alkaline metals and their alloys.

11. TOXICOLOGICAL INFORMATION

Health warnings: Narcotic effect. Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes. Vapour from this chemical can be hazardous when inhaled.
Route of entry: inhalation
Target organs: Central nervous system. Respiratory system, lungs
Acute and chronic health hazards: Repeated exposure may cause chronic upper respiratory irritation. Defatting, drying and cracking of skin.

12. ECOLOGICAL INFORMATION

Environment hazards: Due to the small quantities involved and the volatility of the ingredients the contents of this container present low risk to soil or water. Persistent in atmosphere, [lifetime 15,7 years]. Implicated in global warning. Not considered as harmful to the aquatic environment due to considerable volatility, no bioaccumulation and very low toxicity to aquatic organisms.

13. CONSIDERATIONS CONCERNING DISPOSAL

Disposal methods: Ensure container is empty and dispose of in accordance with Local Authority regulations. Do not pierce or incinerate even when container is empty.

14. INFORMATION ON TRANSPORT


This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These Provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing they are labelled in accordance with the requirements of those regulations to show that they are transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

Land transport:

ADR/GGVS/RID/GGVE:
Description: Aerosols
UN- Number: UN 1950, class 2, Div. 2.2
Designation of goods:
Label for Conveyance: Non-flammable, compressed gas

Sea transport:

UN-No.: UN1950, Sea transport class No: 2
IMDG/GGVSee: IMDG Page No.: 2102

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15. REGULATIONS INFORMATION

LABEL FOR SUPPLY: None required

RISK PHRASES: None required

SAFETY PHRASES:

S-2	Keep out of reach of children.
S-51	Use only in well ventilated areas.
S23	Do not breathe spray or vapour

UK REGULATORY REFERENCES: Classification, Packaging and Labelling Regulations 1984. Health and Safety at Work Act 1974.

The Control of Substances Hazardous to Health Regulations 1988. H.S.E. EH40/2000 Occupational Exposure Limits 2000

The Chemicals (Hazard Information & Packaging for Supply) Regulations 1994. (As Amended)

EC DIRECTIVES: Aerosol Directive 75/324/EEC as amended by 94/1/EEC. Dangerous Preparations Directive 88/379/EEC

Labelling Directive 91/155/EEC as amended by 93/112/EEC

STATUTORY INSTRUMENTS: The Consumer Protection Act 1987 SI 1140 The Aerosol Dispensers Regulations 1977 & 1997

The Classification, Packaging and Labelling of Dangerous Substances Regulations 1984 (SI 1244)

The Health and Safety at Work etc. Act 1974

APPROVED CODE OF PRACTICE: The Control of Substances Hazardous to Health.

British Aerosol Manufacturers Code of Practice, 7th.Ed 1999

OTHER INFORMATION SOURCES: Material Safety Data Sheet, Misc. manufacturers.

16. OTHER INFORMATION

All information are based on our present state of knowledge. The material safety data sheet is destined to inform on the essential requirements of safety and right handling of the product. However, they shouldn't constitute a guarantee for any specific product features an shall not establish a legally valid contractual relationship.