SAFETY DATA SHEET

Deepfreeze Refrigerants Inc. 2695 Slough Street Mississauga Ontario Canada

PRODUCT: Duracool 12A Refrigerant Cylinder - 5.4 kg / 9.1 kg

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Item Numbers..... F12-30 F12-50

Mississauga L4T 1G2 905 671 4222

24 hour emergency telephone number..... In Canada & The United States: Call CHEMTREC (800) 424-9300.

Hazard Ratings:

SECTION 02: HAZARDS IDENTIFICATION

Emergency Overview	Extremely flammable . Container is under pressure. Container may explode if heated. Do
Potential Health Effects:	not puncture. Do not burn. Contact with rapidly expanding gases can cause frostbite.
	Contact with rapidly expanding gas may cause burns and frostbite. Skin may be flushed; as
Five Contact	frostbite develops. Blisters may develop.
Eye Contact	Direct contact with rapidly expanding gas or frost particles may produce severe and possibly permanent eye damage.
Ingestion	Ingestion is not a likely route of exposure.
Inhalation	Acts as a simple asphyziant

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS			
HAZARDOUS INGREDIENTS	CAS#	WT. %	
Propane Isobutane	74-98-6 75-28-5	30-60 30-60	

SECTION 04: FIRST AID MEASURES

Eye Contact	If eye tissue is frozen, seek medical attention immediately. Immediately flush eyes with
	plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If
	irritation, pain, swelling, lacrimation, or photophobia persist, get medical attention as soon
	as possible.
Skin Contact	If frostbite has occurred, seek medical attention immediately; do NOT rub the affected
	areas or flush them with water. In order to prevent further tissue damage, do NOT attempt
	to remove frozen clothing from frostbitten areas. If frostbite has NOT occurred, immediately
	and thoroughly wash contaminated skin with soap and water.
Ingestion	As this product is a gas, refer to the inhalation section.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain
	immediate medical assistance. If breathing is difficult, give oxygen and get medical
	attention.
Additional Information	. Note to the doctor; treat symptomatically.

SECTION 05: FIRE FIGHTING MEASURES

Flammability Class	Extremely	Flammable	€.
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SECTION 06: ACCIDENTAL RELEASE MEASURES

SECTION 07: HANDLING AND STORAGE

prevent falling. Use with adequate ventilation. Do not store in temperatures above 120°F (50°C).

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV		OSHA PEL		NIOSH
INGREDIENTS	TWA	STEL	PEL	STEL	REL
Propane	2,500 ppm	Not available	1,000 ppm	Not available	1,000 ppm
Isobutane	800 ppm	1000 ppm	800 ppm	Not available	800 ppm (TWA)
Eye/Face Protection					
Skin Protection					
protective clothing to prevent the skin from becoming frozen . Respiratory Protection					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability...... Stable at normal temperatures and pressures.

Hazardous Decomposition Products............. Under normal conditions of storage and use, hazardous decomposition products should not be produced. This product may produce carbon monoxide with a deficiency of oxygen.

Possibility of Hazardous Reactions...... Has not been reported.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Propane	658 mg/L (Rat - 4hrs)	Not available
Isobutane	658 mg/L (Rat - 4hrs)	Not available
Route of Exposure	eyes may cause mild to moderate irr pain, numbness, prickling and itching and dermatitis. ogenic by ACGIH, IARC, OSHA or lable, and no adverse effects are exp able, and no adverse effects are exp	ng. May cause frostbite . NTP. ected. kpected.

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SECTION 12: ECOLOGICAL INFORMATION

SECTION 13: DISPOSAL CONSIDERATIONS

Appropriate Disposal Methods...... Dispose in accordance with local, provincial and federal regulations.

SECTION 14: TRANSPORT INFORMATION

IATA (International- Air)......Liquefied petroleum gases, Class 2.1, UN1075.

SECTION 15: REGULATORY INFORMATION

US Regulations...... Environmental Protection Act: Constituents of this product are included on the TSCA inventory. OSHA (29CFR 1910.1200) Classification: Compressed Gas. HIMS Classifications: see section 01.

SECTION 16: OTHER INFORMATION

expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Empack assumes no responsibility for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of the material. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR. THIS SDS IS VALID FOR THREE YEARS.

Abstract Service; NIOSH: National Institute for Occupational Safety and Health, OSHA: Occupational Safety and Health Administration- USA; TSCA: Toxic Substances Control Act 1976-USA; PEL: Permissible Exposure Limit; REL: Recommended Exposure Limit; TLV:

Threshold Limit Value; VOC: Volatile Organic Content; WHMIS: Workplace Hazardous Materials Information System STOT: Specific Target Organ Toxicity.

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