SAFETY DATA SHEET

Deepfreeze Refrigerants Inc. 2695 Slough Street Mississauga Ontario Canada

Duracool 22a Replacement Refrigerant

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer...... Deepfreeze Refrigerants Inc.

2695 Slough Street Mississauga L4T 1G2 905 671 4222

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

Recommended Use..... Environmental friendly refrigerant.

Chemical Family...... Hydrocarbon blend.

SECTION 02: HAZARDS IDENTIFICATION



Label Elements: Signal Word...... DANGER.

Hazard Classification: Physical Hazards...... Flammable Aerosols - Category 1. Gases Under Pressure - Liquefied Gas .

Health Hazards...... Not Classified. Environmental Hazards...... Not Classified.

Hazard Statement...... Extremely flammable aerosol. Pressurized container: may burst if heated. Contains gas

under pressure; may explode if heated.

Precautionary Statements:

Prevention....... Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn,

even after use.

Response......None .

well ventilated place.

regulations.

Hazard(s) not otherwise classified (HNOC) Avoid inhalation of the product. Use only as directed.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS		3
HAZARDOUS INGREDIENTS	CAS#	WT. %

74-98-6 90 -99 % Propane

SECTION 04: FIRST AID MEASURES

Inhalation	. If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain
	immediate medical assistance.
Skin Contact	. Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20
	minutes. Consult a poison control centre or physician immediately.
Eve Contact	. Check for and remove contact lenses. Immediately flush eyes with water for a minimum of
•	15 minutes keeping eyelids open. Consult a doctor if any irritation occurs.
Ingestion	. Ingestion is unlikely to occur. If swallowed do not induce vomiting because of risk of
3	aspiration into the lungs. If aspiration is suspected obtain immediate medical attention.
Most important symptoms/effects, acute .	. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct
and delayed	contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may
	cause headache, fatique, dizziness and nausea. May cause redness and pain.

SECTION 04: FIRST AID MEASURES

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 05: FIRE FIGHTING MEASURES

General Fire Hazards...... Extremely flammable aerosol.

Suitable Extinguishing Media...... Dry chemical powder. Carbon dioxide. Foam, water spray or fog. Unsuitable Extinguishing Media................ Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical In case of fire, the following can be released: Carbon Oxides (CO, CO2), Other unidentified

Organic Compounds.

Special Protective Equipment and Firefighters must use standard protective equipment including flame retardant coat, helmet Precautions for Firefighters with water to prevent vapor pressure build up. For massive fire in cargo area, use

unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective No action shall be taken involving any personal risk or without suitable training. Evacuate **Equipment and Emergency Procedures**

surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid walking through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment (see Section 08).

Methods and Materials for Containment .. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand,

and Cleaning Up

earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.)

away from spilled material.

environmental contamination.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling...... Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is

missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Avoid breathing vapour of this product. Avoid contact with skin and eyes. Avoid prolonged

exposure. Use in well-ventilated areas.

Incompatibilities

Conditions for Safe Storage including any Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C (122°F). Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10).

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TL\	/ =I PEI	OSHA PE	:L	REL 1	NIOSH
INGREDIENTS	IIWA SII	11	_ 0,	ICL	KEL	

Propane Not available Not available 1,000 ppm Not available Not available

Appropriate Engineering Controls....... Local exhaust ventilation required to maintain the point of use below the Threshold Limit

Value if unprotected personnel are involved.

Individual Protection Measures:

Eye/Face Protection...... Chemical splash goggles are recommended.

appropriate chemical resistant clothing.

Thermal Hazards...... None Known.

General Hygiene Considerations............ When using, do not eat, drink or smoke. Always observe good personal hygiene measures,

such as washing after handling the material and before eating, drinking, and/or smoking.

Routinely wash work clothing and protective equipment prior to use.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Form......Aerosol.

Odor...... Characteristic .

Odor Threshold (ppm)...... N/A.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10: STABILITY AND REACTIVITY

Reactivity Product not reactive under normal conditions of use.

Chemical Stability...... Material is stable under normal conditions.

Possibility of Hazardous Reactions...... Will not occur.

Viscosity...... N/A.

Incompatible Materials...... Keep away from heat. Strong oxidizing agents.

Hazardous Decomposition Products...... See Section 05.

SECTION 11: TOXICOLOGICAL INFORMATION

ı/L (Rat - 4hrs)	N
	Not available
ı/L (Rat - 4hrs)	Not available
tbite. effect and may cause head	lache, fatigue, dizziness and
uct or any components pres	ent at greater than 0.1% are humans by IARC or ACGIH.
	uful. Seffect and may cause head be harmful. Suctor any components presented.

SECTION 12: ECOLOGICAL INFORMATION

unconsciousness.

cotoxicity	
not be released into the environment.	
Persistence and degradability	
bioaccumulation Potential	
Mobility in Soil	
Other Ádverse Effects None Known	

SAFETY DATA SHEET

SECTION 13: DISPOSAL CONSIDERATIONS

Appropriate Disposal Methods................................. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Spilled material and water rinses are classified as chemical waste and must be disposed of in accordance with current local, provincial and federal regulations. Contents under pressure. Do not puncture, incinerate or expose to heat, even when empty.

SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road)	UN1075, AEROSOLS, Class 2.1.
IMDG (International- Marine)	UN1075, AEROSOLS, Class 2.1.
IATA (International- Air)	UN1075, AEROSOLS, Class 2.1, LTD QTY.
DOT (US-Road)	UN1075, AEROSOLS, Class 2.1, LTD QTY, Consumer Commodity ORM-D.
DOT (US-Road)	UN1075, AEROSOLS, Class 2.1, LTD QTY, Consumer Commodity ORM-D.

SECTION 15: REGULATORY INFORMATION

US Regulations

TSCA Inventory Status...... All components are listed on TSCA.

OSHA..........this product is considered hazardous under the Federal OSHA hazard communication

standard.

California Proposition 65...... This product does not contain any chemical(s) known to the state of California to cause

cancer or reproductivity toxicity.

SECTION 16: OTHER INFORMATION

warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. The SDS provider assumes no responsibility for personal injury or property damage to vendors or users or third parties, caused by the material. Such vendors 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. 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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