SAFETY DATA SHEET

Deepfreeze Refrigerants Inc. 2695 Slough Street Mississauga Ontario Canada

Duracool 12a 134a Replacement Refrigerant

UC-212

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Family...... Hydrocarbon blend.

SECTION 02: HAZARDS IDENTIFICATION



Label Elements:		
Signal Word	DANGER.	
Hazard Classification:		
		Under Pressure - Liquefied Gas .
Environmental Hazards	Not Classified.	
	Extremely flammable aerosol. Pressurized under pressure; may explode if heated.	container: may burst if heated. Contains gas
Precautionary Statements:		
Prevention	Keep away from heat, hot surfaces, sparks	s, open flames and other ignition sources. No
		or other ignition source. Do not pierce or burn,
	even after use.	
Response	None.	# F000 H000F OL
Storage	Protect from sunlight. Do not expose to te	mperatures exceeding 50°C /122°F. Store in a
	well ventilated place.	
Disposal		hce with local/regional/national/international
•	regulations.	
Hazard(s) not otherwise classified (HNOC) Avoid inhalation of the product. Use only	as directed.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS						
HAZARDOUS IN	NGREDIENTS			CAS#	WT. %	
Isobutane	,			75-28-5	10-60	
Propane				74-98-6	10-60	

SECTION 04: FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh air. If not breath	ing, give artificial respiration and obtain
Skin Contact	immediate medical assistance. Remove contaminated clothing. Rinse skin	immediately with plenty of water for 15-20
	minutes. Consult a poison control centre	or physician immediately.
Eye Contact	The check for and remove contact lenses. Imm 15 minutes keeping eyelids open. Consu	ediately flush eyes with water for a minimum of tandor if any irritation occurs.
Ingestion	Ingestion is unlikely to occur. If swallowed	do not induce vomiting because of risk of
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, r	uspected obtain immediate medical attention. edness, swelling, and blurred vision. Direct ritation. Vapors have a narcotic effect and may ausea. 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.

Organic Compounds.

Firefighters must use standard protective equipment including flame retardant coat, helmet 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. Special Protective Equipment and Precautions for Firefighters

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate 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).

and Cleaning Up

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

Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent 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 maked 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 apour of this product. Avoid contact with skin and eyes. Avoid prolonged exposure. Use in well-ventilated areas.

Conditions for Safe Storage including any Store locked up. Pressurized container. Protect from sunlight and do not expose to Incompatibilities

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

MOOLL	
NIOSH	
vailable vailable	
e measures,	•
e	measures, r smoking.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol.
Physical Appearance	Clear/Transparent, Colorless,
Odor	Characteristic.
Odor Threshold (nom)	N/A

DESCRIPTION OF DIRECTOR	AND CUEMICAL DEC	DEDTIES	
SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES			
Aerosol Vapour Pressure (psig, 21°C). 80-95. Specific Gravity	ter.		
SECTION 10: STABI	LITY AND REACTIVIT	Υ '	
Reactivity	heat and flame, and electroneat. Strong oxidizing ager	ostatic charge. its.	
OLOTION IN TOXICS			
INGREDIENTS	LC50	LD50	
Skin Corrosion/Irritation	ors have a narcotic effect aring inhalation may be harmfule to indicate product or any redients are listed as possitis available.	Ahrs) Not available ad may cause headache, fatigue, dizziness and ul. a components present at greater than 0.1% are oly carcinogenic to humans by IARC or ACGIH.	
SECTION 12: ECOLOGICAL INFORMATION			
Footovicity May be dangero	ous for the environment. No ed into the environment. elf has not been tested. elf has not been tested.		

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

SECTION 15: REGULATORY INFORMATION

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

Disclaimer.....

The information contained herein is based on data considered accurate. No guarantee or 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 of 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.

ACGIH: American Conference of Governmental Industrial Hygienists; CAS: Chemical 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. Regulatory Affairs The information contained herein is based on data considered accurate. No guarantee or

Abbreviations.....

Prepared by Regulatory Affairs