### SAFETY DATA SHEET Deepfreeze Refrigerants Inc. 2695 Slough Street Mississauga Ontario Canada

# Duracool System Seal 114 gm. 4 ounce

# SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identity	
Product Identity De Manufacturer De	epfreeze Refrigerants Inc.
26'	95 Slough Street
	ssissauga
	T 1G2
908	5 671 4222
24 hour emergency telephone number In	Canada & The United States: Call CHEMTREC (800) 424-9300.
Recommended Use Air (	
Consumer CommodityYe	
Hazard Ratings:	
HMIS	Health: 1 Fire: 4 Reactivity: 1.
NFPA Rating	
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### **SECTION 02: HAZARDS IDENTIFICATION**

Emergency Overview	Extremely flammable . Extreme danger. Contact with liquid can cause frostbite . Container is under pressure. Container may explode if heated. Do not puncture. Do not burn. Do not get in eyes or clothing. KEEP OUT OF REACH OF CHILDREN .
Potential Health Effects:	get in eyes of clothing. REEP OUT OF REACH OF CHIEDREN .
	Contact with liquid may cause burns and frostbite. Skin may be flushed; as frostbite
	develops. Blisters may develop.
Eve Contact	
_,	damage.
Ingestion	Ingestion is not a likely route of exposure.
Inhalation	Dense vapour of this material may reduce the available oxygen for breathing.
	Prolong Inhalation of content may cause irritation.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS			
HAZARDOUS INGREDIENTS	CAS #	WT. %	
Isobutane	75-28-5	30-60	
Propane	74-98-6	30-60	
Silanes Mixture	Trade Secret	10-30	
Methanol	67-56-1	0.1-1.0	

# SECTION 04: FIRST AID MEASURES

Eve 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	If swallowed, get medical attention immediately. Do not induce vomiting .
Inhalation	Move victim to fresh air. If breathing has stopped, give artificial respiration. If heartbeat
	absent, give external cardiac compression. Monitor breathing and pulse. Get medical
	attention.
Additional Information	Note to the doctor; treat symptomatically.

## **SECTION 05: FIRE FIGHTING MEASURES**

Flammability Class	. Extremely Flammable.
Extinguishing Media	. Carbon dioxide, dry chemicals, foam or water fog.
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	. Not expected to be sensitive

### SECTION 06: ACCIDENTAL RELEASE MEASURES

Spills and Leaks...... Remove all sources of ignition. Evacuate and Ventilate the area. Attempt to disperse the gas or direct its flow to a safe location for example by using fog sprays.

### SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling...... Avoid breathing vapours or spray mists of this product. Avoid contact with eyes, skin, and clothing. Keep away from heat, sparks, and open flames. Use in well ventilated area. Do not store near cylinders, containing compressed Oxygen or other strong oxidizers. Wash thoroughly after handling . Remove ignition sources.

### SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

		CGIHTLV	-	SHA PEL	NIOSH
INGREDIENTS	TWA	STEL	PEL	STEL	REL
Isobutane	800 ppm	1000 ppm	800 ppm	Not available	800 ppm (TWA)
Propane	2,500 ppm	Not available	1,000 ppm	Not available	1,000 ppm
Silanes Mixture	Not available				
Methanol	200 ppm	250 ppm	200 ppm	250 ppm	200 ppm
Eye/Face Protection					
Respiratory Protection Not required on a short-term basis or if exhaust ventilation is provided. Use approved					
NIOSH respirators for emergencies. Appropriate Engineering Controls Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.					
Exposure Limits					

### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Physical Appearance Odour Odour Threshold (ppm) pH	Colourless to pale yellow. Strong alcohol odour. Not available.
Vapour Pressure (psig)	
Vapour Density (Air=1)	
Evaporation Rate (n-Butyl Acetate = 1).	
Boiling Point (° C)	125 °C.
VOC Content	> 75%.
Specific Gravity	
Specific Gravity (Aerosol).	0.960-0.968.
Solubility in water	Not soluble in water.
Aerosol Flame Projection	
Auto Ignition Temperature (Propellant), °	
Flashback	No data .
Flash Point (°C), Method	Closed cup: -83.15 °C (-117.7 °F).
Lower Flammable Limit (% Vol)	
Upper Flammable Limit (% Vol)	

#### **SECTION 10: STABILITY AND REACTIVITY**

Chemical Stability...... Stable at normal temperatures and pressures. Incompatible Materials...... Strong oxidizing agents. Strong acids. Conditions to Avoid...... Avoid sources of heat and flame, and electrostatic charge. Possibility of Hazardous Reactions...... Has not been reported.

# SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Isobutane	658 mg/L (Rat - 4hrs)	Not available
Propane	658 mg/L (Rat - 4hrs)	Not available
Silanes Mixture	Not available	Not available

# SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Methanol		
displace available oxy from lack of oxygen. E	ct, Inhalation. which are liquids under pressure n eye) due to evaporative cooling. Hig gen from the air; unconsciousness a xposure to very high concentrations ar heart rhythms and cardiac arrest	gh gas concentrations will and death may occur suddenly s of similar materials has been
	ne central nervous system . ogenic by ACGIH, IARC, OSHA or No ole, and no adverse effects are expe ble, and no adverse effects are exp	NTP. ected. pected.

### **SECTION 12: ECOLOGICAL INFORMATION**

Environmental..... Complete information is not yet available.

# SECTION 13: DISPOSAL CONSIDERATIONS

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

### **SECTION 14: TRANSPORT INFORMATION**

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

## **SECTION 15: REGULATORY INFORMATION**

Canada Regulations:	WHMIS Classification. A: Compressed gas. B1: Flammable Gas.
	Environmental Protection Act: Constituents of this product are included on the TSCA
C C	inventory. OSHA (29CFR 1910.1200) Classification: Compressed Gas. HIMS
	Classifications: see section 01.

### **SECTION 16: OTHER INFORMATION**

Disclaimer	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
Prepared by Latest Revision	