

TRAVIS CHEMICALS
a division of Stanchem Inc.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Dowfrost 76-100%
PRODUCT USE: Engine Coolant, Heat Transfer Fluid
EFFECTIVE DATE: July 2, 1998

WHMIS CLASSIFICATION:

Not Controlled

TDG CLASSIFICATION:

NON-REGULATED

1. PRODUCT INFORMATION

Supplier:	Travis Chemicals a division of Stanchem Inc.	Manufacturer	Travis Chemicals
Address:	777-8 th Avenue Calgary, Alberta T2P 3R5		
Emergency Telephone No:	(403) 263-8660 (24 hrs)	WHMIS Group Number:	00062749
CANUTEC Telephone No:	(613) 996-6666	HCi Index Number:	HCi1611/97C

2. HAZADOUS INGREDIENTS

<i>Ingredient*</i>	<i>Weight%</i>	<i>CAS#</i>	<i>LD50 (Units) Species/Route</i>	<i>LC50 (Units) Species/Route</i>	<i>Exposure Limits TWA-8hr ppm</i>
Propylene Glycol	95-100	57-55-6	21-33.7 g/kg oral rat	NAV	NAV
Di-potassium Phosphate	1-5	7758-11-4	NAV	NAV	NAV

All components of this product are either listed on or exempt from the Canadian Domestic Substances List (DSL)
Components not controlled under Controlled Products Regulation are not listed.

3. PHYSICAL DATA

Physical State:	Liquid	Odour Threshold:	NAP
Odour and Appearance:	Odourless; yellow colour	Evaporation Rate:	NAV
Specific Gravity:	1.05-1.06	Vapour Density:	2.6
Vapour Pressure (mmHg)	0.22 @20 C	Freezing Point C	NAV
Boiling Point C	>100	pH	10-11
Coefficient Water/Oil	NAV		

4. FIRE AND EXPLOSION HAZARD

Flash Point(C) >100 Method: Est Upper Flammability Limit: NAP

Lower Flammability Limit: NAP

Autoignition temperature: NAP

Means of Extinction: CO₂ ___ Dry Chemical ___ Foam ___ Water Fog ___ Other As appropriate for surrounding fire

Conditions of Flammability: Product is not considered flammable but will ignite with excess heat.

Hazardous Combustion Ingredients: Carbon monoxide, carbon dioxide.

Explosion Data: Mechanical Impact: Not expected.

Static Discharge: Not expected.

Fire Fighting Procedures: Firefighters must wear appropriate self-contained breathing apparatus and clothing. Note: Hazardous Combustion Products.

5 REACTIVITY DATA

Stability of Product: ☒ Stable ___ Unstable ___ Conditions of Instability

Incompatible Materials Oxidizing materials.

Conditions of Reactivity: Product is generally stable.

Hazardous Decomposition Ingredients: Carbon monoxide, carbon dioxide, water.

6. TOXICOLOGICAL DATA

Routes of Entry ☒ Skin Contact ☒ Skin Absorption ☒ Eye Contact
☒ Inhalation ☒ Ingestion

Class D, Division 2A- Very Toxic Materials

Chronic Toxic Effects: Not reported

Teratogenicity and Embryotoxicity: Not reported

Carcinogenicity: Not reported

Reproductive Toxicity: Not reported

Respiratory Tract Sensitization: Not reported

Mutagenicity: Not reported

Class D, Division 2B-Toxic Materials

Chronic Toxic Effects: Not reported

Skin and Eye Irritation: Not reported

Skin Sensitization: Not reported

Mutagenicity: Not reported

Toxicologically synergistic products: Not reported

Other reported Toxic Effects At room temperatures vapours are minimal. Mists may cause upper respiratory tract. Repeated excessive ingestion may cause CNS effects. Eye contact can cause temporary irritation. Corneal injury is unlikely. Prolonged skin contact can cause flaking and softening of the skin.

7. FIRST AID MEASURES

- Skin contact:** Wash affected area with soap and water for at least 15 minutes. Remove and clean contaminated clothing. Seek medical attention if irritation develops or persists.
- Eye contact:** Flush with water immediately for at least 15 minutes by holding eye open while flushing. Seek immediate medical attention.
- Inhalation:** Remove victim from area to fresh air. Apply artificial respiration if breathing has stopped. If difficulty breathing, administer oxygen. Seek immediate medical attention.
- Ingestion:** Never give anything by mouth to an unconscious person. Do not induce vomiting. Give water. Seek immediate medical aid.

Advice to Physician: Treatment based on judgement in response to reactions of the patient.

8. PREVENTATIVE MEASURES

Personal Protective Equipment: (All equipment should be NIOSH approved)

Respiratory: Exposure within those recommended by respiratory manufacturer requires:

- ☒ Air Purifying ☐ Acid Gas Cartridge ☐ Organic Vapour Cartridge
☐ Dust Mask ☐ Ammonia Cartridge

Exposures that are Immediately Dangerous to Life or Health (IDLH) require an atmosphere-supplying type, positive pressure mode, Self Contained Breathing Apparatus (SCBA).

- Eye Protection:** Chemical goggles must be worn at all times when handling product. If there is a possibility of splashing, wear protective face shield. If vapours irritate eyes, wear full face respirator.
- Clothing:** Chemical resistant protective clothing must be worn at all times when handling product. Wash thoroughly or dispose of any contaminated clothing.
- Engineering Controls:** Local exhaust ventilation is recommended for all controlled products. The use of mechanical ventilation is recommended whenever this product is used in a confined space or when air circulation is inadequate. If product is flammable/combustible, all equipment should be explosion proof.
- Leak and Spill Procedures:** Remove all sources of ignition. Contain spill. Absorb material on appropriate non-flammable absorbent and shovel into compatible salvage containers. Avoid all bodily contact. Appropriate breathing apparatus must be worn if ventilation is inadequate. Do not allow product to enter sewers or stormwater inlets.
- Waste Disposal:** It is the responsibility of the user of this product to determine at the time of disposal whether this product meets criteria for hazardous waste. This is because product uses, processes, mixtures, etc., may render a non-hazardous material hazardous, or a hazardous material non-hazardous.

PREVENTATIVE MEASURE, CONTINUED

Container Disposal: Empty container retains product residue. Containers must be rinsed before disposal or re-use. Observe all hazard precautions. Keep away from heat, sparks and flames. Do not weld or use a cutting torch on or near container. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all hazardous product residue and puncture or otherwise destroy empty container before disposal.

Special Shipping Information: Note: Storage and Handling Precautions. Refer to Fire and Explosion Hazard for data on flammability/combustibility of product. Do **not** ship with foodstuffs, feed or clothing.

Storage and Handling Procedures: Avoid inhalation of vapours/mists. Do not get on skin, in eyes or on clothing. Keep container closed when not in use. Wear suitable protection for eyes and skin when handling. Use with adequate ventilation. Avoid contact with incompatible materials. Store in cool, dry, well ventilated area away from sources of heat, ignition, sparks. Use proper grounding techniques if product is classified as flammable or combustible. Eye wash and safety showers should be easily accessible and in proper operating order.

9. PREPARATION INFORMATION

Prepared By: Safety Department **Title:** Product Stewardship Co-ordinator
Date: July 2, 1998 **Phone Number:** (403)232-0474

NK = Not known
ND = Not decided
NAV = Not available
> = Greater than
< = Less than
SCBA = Self Contained Breathing Apparatus

The information contained herein relates solely to the specific product or products identified herein and is believed by Travis to be accurate and reliable as of the date of this document, however, no representation or warranty, whether written or verbal, is given as to the accuracy, reliability or completeness of such information. Any person using this information should make his/her own determination as to the information's suitability and completeness for a product's particular application. Travis will not be responsible for any damage whatsoever resulting from the use of or reliance on this information or from the use, handling or application of the product or products herein referred to

APPENDIX F

If You Discover a Spill Response Action

TOWN OF IQALUIT

"IF YOU FIND A SPILL"

FIRST PERSON RESPONSE:

- a) Be alert and consider your personal safety first.
- b) Assess the hazard to persons near the spill, and where possible, take action to control danger to human life.
- c) If the spill creates a fire, explosion or other hazard to human life, remove all potential ignition sources if possible, evacuate the area, and contact the RCMP.
- d) If safe and practical, take appropriate action to stop the spill.
- e) Contact Dispatch and report the spill.
DISPATCH - 979-5670
- f) Mark the scene to warn the public and restrict access.



MUNICIPALITY OF IQALUIT

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APPENDIX G

As and When Contracts List

AWARD OF "AS AND WHEN" TENDERS – June 1, 2004 to May 30, 2005

<u>Awarded To</u>	<u>For Which Service</u>	<u>Hourly Rate(s)</u>	<u>Contact Info</u>
4577 Nunavut Ltd O/A Baffin Building Systems	Infrastructure and Utilador Repairs	\$5,000 winter start-up on 224 and 235 per occasion \$45.00 per hour Labor \$55.00 per hour H/E Operator \$50.00 per hour Truck Driver \$60.00 per hour Fusion Tech. \$55.00 per hour Plumber	Robert Hann 975-1484 John Bishop 975-1484
Second Bidder on Service		None	
4577 Nunavut Ltd O/A Baffin Building Systems	Supply Granular Material (Delivered)	\$34.00 per yard ¾" minus crush gravel \$30.00 per yard 2" minus crush gravel \$16.00 per yard sand (un-screened) \$60.00 per yard ¾" clear crush stone \$32.00 per yard 1" crush gravel \$27.00 per yard screened sand	John Bishop 975-1484 Robert Hann 975-1213 Chris Groves 979-4874
Second Bidder		None	

<u>Awarded To</u>	<u>For Which Service</u>	<u>Hourly Rate(s)</u>	<u>Contact Info</u>
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No Bids

Vehicle Rental

4577 Nunavut Ltd O/A Baffin Building Systems	Heavy Equipment Rental Excavators	\$240.00 per hour CAT 234 (track) \$200.00 per hour CAT 224 (wheel) \$350.00 per hour CAT 224 (with hoe ram)	As Above
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Dump Truck

\$100.00 per hour
Ford Tandem Dump

Loaders

\$110.00 per hour
Tandem Ampiroll
\$105.00 per hour
John Deere 624E
\$105.00 per hour
Michigan L90
\$105.00 per hour
CAT 950G

Fusion Machine

\$200.00 per day
McElroy #28

Gas Pump

Combination
\$100.00 per day
1036 Junior

Granular Processing
Plant

\$2000.00 per day
CR061 Pitmaster

Asphalt Plant

\$5000.00 per day
Cederapids H230
Batch Plant

Generator

No Bid

Compactor

\$110.00 per hour
Bomag

Bull-Dozer

\$100.00 per hour
CAT D4D

Grader

\$95.00 per hour
Champion

Second Bidder

None

Awarded To	For Which Service	Hourly Rate(s)	Contact Info
Wynberg Automotive	Heavy Truck Repairs	\$62.00 per hour \$70.00 per hour (Shop o/t rate) \$70.00 per hour (Field o/t rate)	Reg Wynes 979-0748 Troy Comeau 979-6472

Second Bidder

Nunavut Performance		As above	Rob Bertrand 979-6626 Cathy Shwartz 979-8858
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Wynberg Automotive	Small Vehicle and Equipment Repairs	\$62.00 per hour \$70.00 per hour (shop o/t rate) \$70.00 per hour (field o/t rate)	Reg Wynes 979-6476 Troy Comeau 979-6472
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Second Bidder

Nunavut Performance		As Above	Rob Bertrand 979-6626 Cathy Shwartz 979-8858
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No Bids	Communication and Office Equipment Repair
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Arctic Circle Construction and Development	Carpentry and Painting	\$40.00 per hour	Michael Rizzi 979-4130 Dan Choquet 979-7767
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Second Bidder

4577 Nunavut Ltd. O/A Baffin Building Systems		As Above Note: \$65.00 per hour (locksmith)	Chris Groves 979-9649 Robert Hann 979-6949
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<u>Awarded To</u>	<u>For Which Service</u>	<u>Hourly Rate(s)</u>	<u>Contact Info</u>
4577 Nunavut Ltd O/A Baffin Building Systems	Plumbing Services	\$55.00 per hour \$65.00 per hour (shop o/t rate) \$65.00 per hour (field o/t rate)	Chris Groves 979-6949 Robert Hann 979-6949
Second Bidder	None		
4577 Nunavut Ltd O/A Baffin Building Systems	Electrical Services and Repairs	\$55.00 per hour \$65.00 per hour (shop o/t rate) \$65.00 per hour (field o/t rate)	Chris Groves 979-6949 Robert Hann 979-6949
Second Bidder	None		
4577 Nunavut Ltd. O/A Baffin Building Systems	Heating and Air Conditioning	\$55.00 per hour \$110.00 for call-out	Chris Groves 979-6949 Robert Hann 979-6949
Second Bidder	None		
4577 Nunavut Ltd. O/A Baffin Building Systems	Welding and Fabrication and Repairs	\$120.00 per hour (shop and field)	Chris Groves 979-6949 Robert Hann 979-6949
Second Bidder	None		