SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	**ARCTIC CLEAR ™ WINDOW & MIRROR DE-ICER**
Product Use	Windshield, Window and Mirror De-Icer / Anti-Icer
Manufacturer	XYNYTH Manufacturing Corp. 122 - 3989 Henning Drive Burnaby, B.C. Canada V5C 6N5 604-473-9343
Emergency	1-800-635-8423

SECTION 2: HAZARDS IDENTIFICATION

PHYSICAL HAZARDS	Category 2 - Flammable Aerosols Gases under pressure. Compressed gas.
HEALTH HAZARDS	
GHS: CONTACT HAZARD – SKIN	Category 2 – Skin irritation.
GHS: CONTACT HAZARD – EYE	Category 2B – Eye damage/irritation.
GHS: ACUTE TOXICITY – INHALATION	Category 4
GHS: ACUTE TOXICITY – ORAL	Category 3
GHS: ACUTE TOXICITY – DERMAL	Category 3
GHS: SPECIFIC TARGET TOXICITY, SINGLE EXPOSURE	Category 1
GHS: TOXIC TO REPRODUCTION	Category 2

GHS SYMBOL:

GHS SIGNAL WORD:

DANGER

HAZARD STATEMENT:

Flammable aerosol. Pressurized container: may burst if heated. Harmful if inhaled. Causes eye irritation. Causes skin irritation. Causes damage to organs. Toxic if swallowed. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects. Contains gas under pressure; may explode if heated.

PRECAUTIONARY STATEMENTS (Prevention):

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink, or smoke when using this product.
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.
Wash hand thoroughly after handling. Avoid release to the environment.

PRECAUTIONARY STATEMENTS (Response):
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER. Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water. If Skin Irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If exposed or concerned: Get medical advice/attention.
PRECAUTIONARY STATEMENTS (Storage):
Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F. Store locked up. Store in a well-ventilated place.
PRECAUTIONARY STATEMENTS (Disposal):
Dispose of contents and container in accordance with local, regional, national and/or international regulations.
HAZARDS NOT OTHERWISE CLASSIFIED: None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER
Methanol	67-56-1
Isopropyl Alcohol	67-63-0
Carbon Dioxide	124-38-9
Propylene glycol	57-55-6

SECTION 4: 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.

Eye 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 aspiration into the lungs. If aspiration is suspected obtain immediate medical attention.

Most important symptoms/ effects, acute and delayed: This product contains methanol which can cause intoxication and CNS depression.

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 5: FIRE-FIGHTING MEASURES

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: Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special Protective Equipment and Precautions for Firefighters: 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.

General Fire Hazards: Flammable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedure: 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)

Methods and Materials for Containment and Cleaning Up: Spill areas may be slippery. Use care to avoid falls or other accidents . Contain the spill. Clean up the spill area with detergent and water. Once spilled material has been collected, use rags or other suitable material to clean spill area. Rags should be properly disposed off.

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination

SECTION 7: 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 pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat,
sparks or open flames. Avoid contact with eyes, skin, and clothing. Avoid breathing vapour of this product. Avoid contact with skin and eyes. Avoid prolonged exposure. Use in well-ventilated areas.

Conditions for Safe Storage including any Incompatibilities: 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 8: EXPOSURE CONTROL/PERSONAL PROTECTION

INGREDIENT	ACGIH TLV		OSHA PEL		NOISH
	TWA	STEL	PEL	STEL	REL
Methanol	200ppm	250ppm	200ppm	250ppm	200ppm
Isopropyl Alcohol	400ppm	500ppm	400ppm	500ppm	400ppm (TWA)
Carbon Dioxide	5000ppm	30000ppm	9000 mg/m^3	NA	STEL: 30000ppm TWA: 5000ppm
Propylene Glycol	NA	NA	NA	NA	NA

Respiratory Protection: If ventilation is not adequate, use a nuisance mask or respirator with dust filters.
Skin Protection: Gloves chemically resistant to this material.
Eye/Face Protection: Wear chemical goggles or safety glasses.
Handling Procedure: Wash hands after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Aerosol	**Appearance:**	Colorless liquid
Odor:	Not Available	**Odour Threshold:**	Not Available
Specific Gravity (Aerosol):	0.809	**Specific Gravity (Liquid):**	0.790-0.830
Aerosol Vapour Pressure (psig, 21°C):	100-120	**Evaporation Rate (n-Butyl Acetate = 1):**	> 1
Vapour Density (Air=1):	> 1	**pH:**	Not Available
Boiling Point liquid:	64.5°C (148°F)	**Melting/Freezing Point (°C):**	Not Available
Flash Point, Method:	Closed cup: 12.0 ºC (53 ºF)	**Flashback:**	Yes
VOC Content:	Not Available	**Solubility in water:**	Soluble
Aerosol Flame Projection:	> 100 cm	**Auto Ignition Temperature:**	465 °C/869 °F
Lower Flammable Limit (% Vol):	2.6	**Upper Flammable Limit (% Vol):**	36.5
Viscosity:	Thin		

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Product not reactive under normal conditions of use.
Chemical Stability:	Material is stable under normal conditions.
Hazardous Reactions:	Will not occur.
Conditions to Avoid:	Avoid sources of heat and flame, and electrostatic charge. Excessive heat, ignition sources, and oxidizing materials.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Hazardous Decompositions:	Carbon Oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENT	LC50	LD50
Methanol	128.2 mg/L (4h,Rat)	5628 mg/kg (Rat, Oral); 15,840 mg/kg (Rabbit, Dermal)
Isopropyl Alcohol	>20,000 ppm (4hrs-rat)	4,700 - 5,800 mg/kg (oral,rat)
Carbon Dioxide	Not Available	Not Available
Propylene Glycol	Not Available	20,000 mg/kg (oral, rat)

Symptoms Related to the Physical, Chemical and Toxicological Characteristics:	Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Acute Toxicity:	Harmful or fatal if swallowed. Irritating to the eyes.
Skin Corrosion/Irritation:	Causes skin irritation.
Serious Eye Damage/Eye Irritation:	Causes eye irritation.
Respiratory or Skin Sensitization:	May cause sensitization by skin contact.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	Not Classifiable as a Human Carcinogen.
Reproductive Toxicity:	Methanol has caused birth defects to rats exposed to 20,000 ppm.
STOT - Single Exposure:	Causes damage to organs.
STOT - Repeated Exposure:	No data available
Aspiration Hazard:	Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Chronic Effects:	Unconsciousness. May be harmful if absorbed through skin. Repeated exposure by inhalation or absorption of methanol may use systemic poisoning, brain disorders, impaired vision and blindness. Inhalation may worsen conditions such as emphysema or bronchitis. Repeated skin contact may cause dermal irritation, dryness and cracking. Effects of sub lethal doses may be nausea, headache, abdominal pain, vomiting and visual disturbances ranging from blurred vision to light sensitivity. Methanol is toxic by inhalation and ingestion. Inhalation of vapors may cause cyanosis, CNS effects, lethargy, loss of consciousness and death. The effects from inhalation may be delayed. Ingestion may cause malaise, CNS effects, discomfort, and death if not treated promptly. Ingestion of methanol has resulted in adverse effects (necrosis and haemorrhaging) in the brain. Medical conditions aggravated by exposure include: skin disorders and allergies, liver disorders and eye disease. Undocumented reports suggest that this product may form a siloxane polymer on the eyes, lungs, or other mucous membranes. Long term exposure to methanol has been associated with headaches, giddiness, conjunctivitis, insomnia and impaired vision. Dermal absorption of significant amounts of methanol resulted in death in several animal species. Toxic effects in animals exposed to methanol by inhalation include eye irritation, blindness and nasal discharge. Toxic effects observed in animals exposed to methanol by ingestion include CNS effects, gastrointestinal effects, anesthetic effects, damage to the optic nerve and acidosis.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Methanol (CAS#: 67-56-1): Toxicity to fish: LC50 15400-29400 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: EC50 >10,000 mg/L, 48 hrs; Toxicity to algae: EC50 22,000 mg/L, 72hrs. Isopropanol alcohol (CAS#: 67-63-0): Toxicity to fish: LC50 9,640 mg/L, 96 hrs; Toxicity to other aquatic vertebrates: 5,102 mg/L, 96 hrs; Toxicity to algae: EL50 >2,000 mg/L, 72 hrs.
Peristance and Degradability:	Not Available
Bioaccumulation Potential:	Not Available
Mobility in Soil:	Not Available
Other Adverse Affects:	None Known

SECTION 13: DISPOSAL CONSIDERATION

Waste Disposal:	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

DOT (United States):	AEROSOLS, Class 2.1, UN1950, LTD QTY, Consumer commodity ORM-D
TDG (Canada):	AEROSOLS, Class 2.1, UN1950
IMDG (International-Marine):	AEROSOLS, Class 2.1, UN1950
IATA (International-Air):	AEROSOLS, Class 2.1, UN1950, LTD QTY

SECTION 15: REGULATORY INFORMATION

Canadian Regulations:	WHMIS Classification. A: Compressed gas. B5: Flammable Aerosol. D1B: Material causing very toxic effects.
Canadian Environmental Protection Act (CEPA):	All ingredients listed appear on the Domestic Substances List (DSL).
US Regulations:	Environmental Protection Act: Constituents of this product are included on the TSCA. inventory.
OSHA:	This product is considered hazardous under the Federal OSHA hazard communication standard.
California Proposition 65:	This product contains methanol known to the state of California to cause developmental reproductive toxicity.

SECTION 16: OTHER INFORMATION

SDS Prepared by: XYNYTH Manufacturing Corp. Date: 01, July 2016