

SECTION 1: IDENTIFICATION

Product Name: Andemar XS-150

Supplier : Andemar Dust & Ice Control Ltd.
60 Water Street South
St. Marys, ON
N4X 1A3

Product use: Intermediate

Restriction on use: None known

In the event of an emergency, call 519-871-4703 All hours

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Not GHS classified

GHS Label Elements:



Signal Word:

DANGER

GHS Hazard Statements:

H225 Highly flammable liquid and vapour	Category 2
H319 Serious eye irritation	Category 2A
H335 STOT Single Exposure	Category 3
H305 STOT Repeated Exposure (Kidney, Liver)	Category 2

GHS Precautionary Statements:

Prevention

P102 Keep out of reach of children
P103 Read label before using
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 Keep container tightly closed
P240 Ground and bond container and receiving equipment
P241 + P242 Use explosion proof equipment and non-sparking tool
P243 Take action to prevent static discharges
P260 Do not breathe mist, vapours or spray
P264 Wash thoroughly after handling
P280 Wear protective gloves, clothing, eye protection and face protection

GHS Precautionary Statements:

Response

P102 Keep out of reach of children
P103 Read label before using
P303+P3611+P353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338 IF IN THE EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or Doctor.
P370+P378 In case of fire use dry chemical or foam to extinguish

Storage

P403+P235+P233 Store in a well ventilated place. Keep cool. Keep container tightly closed

Disposal

P405 Store locked up
P501 Dispose of contents/container to comply with applicable regulations

Physical Hazards Not Otherwise Classified: None known

Health Hazards Not Otherwise Classified: None known



SAFETY DATA SHEET

Andemar XS-150

Creation Date: January 30, 2019

Revision Date: January 30, 2019

Page 2 of 5

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	% (w/w)
Glycerin	56-81-5	7-13
Isopropyl alcohol	67-56-1	60-100

Common Name: None

Synonyms: None

SECTION 4: FIRST-AID MEASURES

Inhalation: If inhaled move person to fresh air. Call a Poison Control Center or Doctor for further advice. If person is not breathing call 911 or an ambulance, then give artificial respiration

Skin contact: If on skin remove contaminated clothing immediately. Flush skin with running water for a minimum of 20 minutes. If irritation persists obtain medical attention

Eye contact: If in eyes rinse slowly and gently with water for 15-20 minutes, remove contact lens, if present, after first 5 minutes, then continue rinsing. Hold eyelids open during flushing. If irritation persists obtain medical attention

Ingestion: If swallowed call a Poison Control Center or Doctor for further advice. Do not induce vomiting unless told to do so by a Poison Control Center or Doctor. Have person sip a glass of water if able to do so. Do not give anything to an unconscious person

Most Important Symptoms and Effects, Acute and Delayed:

If inhaled: Inhalation of high concentrations of mists or vapours may cause central nervous system depression, headache, dizziness, tiredness, nausea and vomiting

If on skin: May cause slight skin irritation

If in eyes: Direct contact may cause severe eye irritation

If swallowed: May cause nausea and vomiting

Indication of any immediate medical attention and special treatment needed:

There is no specific antidote, treat symptomatically

If medical advice is required, have product container or label at hand

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: For large fires, apply aqueous film forming foam or water in the form of a fog. For small fires, use carbon dioxide or dry chemical

Unsuitable Extinguishing Media: Water may not be effective.

Specific Hazards arising from the substance or mixture: Contain fire-fighting water for disposal if contaminated with product. Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back.

Special Protective Equipment and Precautions for Fire-fighters: Wear self-contained breathing apparatus and impervious clothing. Minimize the amount of water used and contain the run-off from entering water supplies or the environment by dyking

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear personal protective equipment as described in Section 8. Take precautionary measures against static discharge.

Environmental Precautions: Do not allow product to enter sewers, ground water or any water course. Inform applicable government authority if release is reportable or could adversely affect the environment

Methods and Materials for Containment and Cleaning Up: Absorb spilled material and wash water with suitable liquid binding material and place in suitable closed containers for disposal. Dispose of contaminated material as waste according to Section 13

SECTION 7: HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Wash thoroughly after use. If clothing becomes contaminated, wash thoroughly before re-use

Conditions for Safe Storage: Keep container tightly sealed when not in use. Store in a cool, dry, well-ventilated area, away from heat and ignition sources. Keep out of reach of children and pets

Storage temperature: Store between 0 to 40 °C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with Workplace Control Parameters:

Ingredients	CAS Number	Value/Form of Exposure	Permissible Concentration
Isopropyl alcohol	67-63-0	ACGIH TVA OSHA PEL	TWA: 200 ppm TWA: 400 ppm
Glycerin	56-81-5	ACGIH TWA OSHA TWA	15 mg/m ³ (mist) 10 mg/m ³ (mist)

Appropriate Engineering Controls: Provide local exhaust and/or adequate ventilation

Individual Protection Measures:
Eye protection: Safety glasses or chemical safety goggles

Skin protection: Chemical-resistant gloves and protective clothing that is impervious under conditions of use

Respiratory protection: If misting conditions exist or high vapour concentrations, use NIOSH/MSHA approved respirator for organics

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light blue liquid
Odour:	Alcohol like odour
Odour Threshold:	Not determined
pH:	5.5 – 8.0
Melting point/Freezing Point:	Not determined
Initial Boiling Point/Range:	Not determined
Flash Point:	12 °C
Evaporation rate (ether=1):	2.1
Flammability (Solid or gas):	Flammable
Lower flammability or explosive limit:	2 %
Upper flammability or explosive limit:	12 %
Vapour pressure (mm Hg at 20°C):	43
Vapour density (air=1):	No data
Specific gravity:	0.933
Solubility (water):	Miscible
Solubility (other):	No data
Partition coefficient (n-octanol/water):	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not reactive. Not sensitive to mechanical impact
Chemical stability:	Stable under normal conditions
Possibility of hazardous reactions:	None expected
Conditions to avoid:	Keep away from heat, flames and sources of ignition
Incompatible materials:	Strong oxidizing agents, acids and bases.
Hazardous decomposition products:	May produce toxic fumes of carbon oxides and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, skin, ingestion and inhalation

Acute Toxicity of product:

 Oral LD₅₀ (rat) = > 5,000 mg/Kg

 Dermal LD₅₀ (rabbit) = > 12,000 mg/Kg

 Inhalation LC₅₀ (rat) = > 100 mg/L/4 hr

Delayed and Immediate Effects:
Inhalation: Inhalation of high concentrations of mists or vapours may cause central nervous system depression, headache, dizziness, tiredness, nausea and vomiting.

Skin contact: May cause slight skin irritation

Eye contact: Direct contact may cause severe eye irritation

Ingestion: May cause nausea and vomiting



SAFETY DATA SHEET

Andemar XS-150

Creation Date: January 30, 2019

Revision Date: January 30, 2019

Page 4 of 5

Respiratory or Skin Sensitization:	Not expected to cause sensitization
Aspiration Hazard:	Not expected to be an aspiration hazard
Chronic Effects:	May cause damage to the kidney and liver
Carcinogenicity:	The ingredients in this product are not classified as carcinogenic by the ACGIH, IARC, OSHA and NTP
Mutagenicity:	No data
Reproductive effects:	Not expected to be a reproductive hazard
Other information:	None known

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Isopropyl alcohol LC50 Fish (Fathead Minnow) – 64,000 mg/L/96 hr EC50 (Water Flea) – 9714 mg/L/24 hr EC50 (freshwater Algae) - >1000 mg/L/ 96 hr
Persistence and Degradability:	Readily biodegradable
Bioaccumulative Potential:	Not bioaccumulative
Mobility in Soil:	Highly mobile in soil
Other Adverse Effects:	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Container Disposal:	Non-refillable container. Discard of container as contaminated waste
Waste Disposal:	Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste product with normal garbage or to sewer systems.

SECTION 14: TRANSPORT INFORMATION

Canadian TDG Classification:	UN1219, ISOPROPANOL, Class 3, P.G. II LIMITED QUANTITIES - < 1 L per container and, 30 Kg per over-pack
Transportation Emergency Telephone Number:	1-519-871-4703
Special Precautions:	None known
Marine Pollutant:	Not a marine pollutant

SECTION 15: REGULATORY INFORMATION

Domestic Substance List (DSL):	All ingredients are listed on the DSL
CEPA Canadian Environmental Protection Agency:	Not listed
National Pollutant Release Inventory:	Listed on the NPRI

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstracts Services
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
IMDG:	International Maritime Code for Dangerous Goods
IARC:	International Agency for Research on Cancer
LD50:	Lethal dose that kills 50% of test sample
LC50:	Lethal concentration required to kill 50% of the population
NPRI:	National Pollutant Release Inventory
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PMRA:	Pest Management Regulatory Agency
STOT:	Specific Target Organ Toxicity
TLV:	Threshold Limit Value
TWA:	Time Weighted Average
WHMIS:	Workplace Hazardous Materials Information System



SAFETY DATA SHEET
Andemar XS-150

Creation Date: January 30, 2019

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Page 5 of 5

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SDS Prepared By: Dodsworth Consulting