CAN-ROSS ENVIRONMENTAL SERVICES LTD.
1-2340 Winston Park Drive, Oakville,ON L6H 7T7 CANADA

TRADE NAME: MERCON™ SPRAY
PRODUCT CODE: Mercon Spray

SECTION 01 : CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product: **MERCON™SPRAY**
Product Use: **Mercury vapor suppressant**

DISTRIBUTOR: Can-Ross Environmental Services Ltd.
1-2340 Winston Park Drive
Oakville, ON L6H 7T7
Toll Free: 1-888-847-7190
Tel: (905) 847-7190 Fax: (905) 847-7175

SECTION 02 : HAZARDS IDENTIFICATION

Routes of entry

Skin Contact: Yes **Skin Absorption:** No **Eye Contact:** Yes **Ingestion:** Yes **Inhalation:** Yes

Emergency overview: High vapor concentrations may cause headaches, nausea, dizziness, in coordination and confusion. Aspiration hazard, if ingested. Possible reproductive hazard.

Acute Health Effects: It is unlikely that contact with skin result in any ill effects. Direct contact with eyes may produce a mild transient irritation. Although ingestion is not a typical route of entry, consumption may be a possible reproduction hazard. Ingestion of large quantities may cause minor gastrointestinal discomfort. This product contains a small amount of isopropyl alcohol which if inhaled in high concentrations may cause headache, nausea, dizziness, in coordination and confusion. Should the product be atomized and the inhaled, upper respiratory irritation may occur causing coughing. These effects are transient and will subside if the source of irritation is removed.

Chronic Health Effects: For persons who have sensitive skin, or who are pre-disposed to skin problems, prolonged contact may result in minor rash. Chronic exposure to isopropyl alcohol may be a reproduction hazard. No other chronic health effects anticipated.

SECTION 03 : COMPOSITION / INFORMATION on HAZARDOUS INGREDIENTS

Component	% (w/w)	Exposure Limits* (ACGIH**)	LD_{50}	LC_{50}
1,2 Propylene Glycol CAS No. 57-55-6	50-65	Not Established	20-33.7 g/kg (oral/rat) 20.8 g/kg (dermal/rabbit]	Not established
Isopropyl Alcohol CAS No 67-63-0	8-10	TLV-TWA: 200 ppm, Carcinogen A4, Not classifiable as a human carcinogen	4720 mg/kg (oral/rat)	17000ppm (rat/4-hr exposure)
Non hazardous ingredients or thos below disclosure requirements	25-42	Not Applicable	Not Applicable	Not Applicable

*Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory Agency for the exposure limits in your area.

**ACGIH – American Conference of Government Industrial Hygienists

SECTION 04 : FIRST AID MEASURES

EYE CONTACT: Flush contaminated eye(s) with lukewarm, gently running water for 15 minutes, holding eyelids open. Seek medical attention if irritation persists.

SKIN CONTACT: Wash affected area immediately with mild soap and water and continue for 15 minutes. If irritation persists, seek immediate medical attention. Remove any contaminated clothing and launder clothing before reuse.

INHALATION: This is an unlikely route of entry, but if victim has been exposed to mist or vapors, remove to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Get medical attention immediately.

INGESTION: Do not induce vomiting. Give 240-300 ml of water to dilute material. If vomiting occurs naturally, have victim lean forward with head between knees to reduce risk of aspiration. Seek medical attention.

SECTION 05: FIRE AND EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

Flash point:	42°C PMCC
Auto-ignition temperature:	399° C
Lower Explosive Limit:	2% (isopropanol)
Upper Explosion Limit:	12% (isopropanol)
Sensitivity to Impact:	Not sensitive
Sensitive to Static Discharge:	Not Sensitive

Hazardous Combustion Products: Upon dryness, hazardous combustion products may result in the evolution of small amounts of oxides of carbon, aldehydes, and/or ketones.

Extinguishing Media: This product is combustible. Use carbon dioxide, dry chemical or appropriate foam. Water spray may be used to cool surrounding containers.

Fire Fighting Instructions: Evacuate area and fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Do no enter confined fire space without proper person protection. Use approved positive pressure self-contained breathing apparatus. If possible, isolate materials not yet involved in the fire, and move containers from fire area if this can be done without risk, and protect personnel. Otherwise, fire-exposed containers or tanks should be cooled by application of hose streams and this should begin as soon as possible and should concentrate on any unwetted portions of the container.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Protection: See Section 8 for proper protective equipment to be worn while cleaning an accidental spill.

Environmental Precautions: Not expected to have any environmental impact.

Cleanup Procedures: Small spill of this product are not expected to have any detrimental environmental effects, but caution should be taken to prevent larger spills from entering waterways. Absorb spill onto inert medium and place into proper containers for disposal. Thoroughly flush residue with water.

SECTION 07: HANDLING AND STORAGE

Handling Procedures: Keep container tightly closed when not in use. Launder clothing before reuse. Wash face and hands thoroughly after handling and before eating, drinking, or using tobacco products. Keep from freezing.

Storage: Store in cool, dry place and in an upright position to prevent leakage.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

Engineering Controls:	Under manufacturers recommended use, no particular controls necessary.
Respiratory Protection:	Not necessary if used as recommended, but if product is atomized or heated to vaporize the isopropyl alcohol, at a minimum use a NIOSH approved organic vapor respirator.
Skin Protection:	If predisposed to skin problems, it is recommended that any chemically impervious gloves and/or clothing be used. Barrier cream may be used if contact is sporadic.
Eye and Face Protection:	Using chemical splash-proof goggles is recommended.
Footwear:	As required by worksite rules.
Other:	Eye wash station should be located near work area.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown Liquid
Odor: Slight Alcohol
Odor Threshold: Not Available
pH Not Available
Vapor Pressure: Not Available
Solubility: Soluble in Water in all concentrations
Boiling Point: Not Available
Critical Temperature: Not available
Relative Density: 1.1 @ 24'C (water=1)
Partition Coefficient: Not Available
Evaporation Rage: Not Available
Freezing Point: Not Available
Vapor Density: Not Available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability and Reactivity: Product is stable.
Incompatibility: Avoid contact with isocyanates, strong oxidizers, and mineral acids such as nitric acid, carbides, aluminum, chorine dioxide bleaches.
Hazardous Decomposition Products: Ammonia, iodine gas, aldehydes, and/or ketones.
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Exposure: Theoretical oral LD_{50} for the product is greater than 25g/kg (oral/rat)/ The LD_{50} (dermal) has not been determined.

Chronic Exposure: See Section 3.
Exposure Limits: See Section 2.
Irritancy: See Section 3.
Sensitization: See Section 3.
Carcinogenicity Not Available
Tetratogenicity: Not Available
Reproductive toxicity: Isopropyl alcohol has bee linked to reproductive toxicity, based on animal studies.
Mutagenicity: Not Available
Synergistic products Isopropyl alcohol has increased the liver toxicity of chemicals such as carbon tetrachloride,chloroform, trichloroethylene, bromodicholoromethane,1,1,2-trichloroethane,and nitrosodimethylamine.

SECTION 12: ECOLOGICAL CONSIDERATIONS

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Canadian Environmental Protection Act: All ingredients are listed on the Canadian DSL and the US Toxic Substances Control Act (TSCA). Dispose according to all local, provincial or state and federal requirements.

SECTION 14: TRANSPORT INFORMATION

Canadian Transportation of Dangerous Good Regulations: As per Part 1.33 of the Canadian Transportation of Dangerous Goods Regulations (TDG), this product is exempt for transport if shipped in small means of containment. If shipped in a large means of containment, use the below listed classification.

United States Department of Transportation: As per CFR 49, 173.150(f)(2) of the United States transportation regulations, this product is exempt from the requirements of the above regulation if shipped in non-bulk. If shipped in bulk, use the below listed classification.

International Air Transportation Association (IATA): UN1993, FLAMMABLE LIQUID, N.O.S. (Isopropanol), Class 3, PG III

International Maritime Organization (IMO): UN1993, Flammable liquids, n.o.s. (Isopropanol), Class 3, PG III, Flash Point = 42'C,

EmS No. F-E, S-E, Stowage Category "A"

SECTION 15: REGULATORY INFORMATION

Canadian Federal Regulations:

Canadian Environmental Protection Act: All ingredients are on the Domestic Substances List SHMIS Classification: B3, D2B

UNITED STATES – FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA): All components are listed in the inventory. OSHA, 29CFR 1910, Subpart Z: Meets the criteria for a hazardous substance

CERCLA, 40 CFR 302: No components listed
SARA 302, 40 CFR 355, No components listed
SARA 313 40 CFR 372: No components listed
SARA 311/312, 40 CFR 370: Meets criteria

SECTION 16: OTHER INFORMATION

DISCLAIMER: Can-Ross believes the above information to be reliable. Handling of this product shall be restricted to qualified persons. Users must make their own tests when mixing this product with any other product or using it in any process which may alter its properties. Can-Ross assumes no responsibility whatsoever from any such usage.

DATE OF LAST REVISION – FEBRUARY 1, 2016