

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Denatured Alcohol DA-2A

DE300-00

SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

MANUFACTURER: Same as above
PREPARED BY: Production Department
VERSION DATE: 20-Jan-15
TELEPHONE NO.: (519) 451-1614
EMERGENCY PHONE NO.: (613) 996-6666
CHEMICAL FAMILY: Alcohol / Esters. **CHEMICAL FORMULA:** Not Applicable
MOLECULAR WEIGHT: Not Applicable **MATERIAL USE:** Please Refer to technical literature
SYNONYMS: 2A Alcohol or solvent, DAG-2A.

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Ethanol	60-100	64-17-5	1501 mg/kg	124.7 mg/L	N.Av.
Methanol	10-30	67-56-1	5628 mg/kg	32,000 ppm / 8hrs	N.Av.
Ethyl Acetate	0.1-1	141-78-6	5620 mg/kg	N.Av.	N.Av.
Water	Balance	7732-18-5	N.Av.	N.Av.	N.Av.

SECTION 03: HAZARD IDENTIFICATION

ROUTE OF ENTRY

Eyes: Causes moderate to severe irritation, experienced as discomfort or pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva.

Skin: Causes mild skin irritation. May be absorbed through the skin and contribute to the symptoms listed under ingestion. May cause dermatitis, prolonged or repeated contact may cause skin sensitization.

Inhalation: High vapour concentrations are irritating to the eyes, nose, throat and lungs; may cause headaches and dizziness; may be anesthetic and may cause other central nervous system effects.

Ingestion: May cause headache, nausea, abdominal discomfort, vomiting, diarrhea, dizziness, drowsiness, faintness, lack of coordination and unconsciousness. A small amount of methanol (usually two or more ounces) can cause mental sluggishness, nausea and vomiting leading to severe illness, and may produce adverse effects on vision with possible blindness or death if treatment is not received.

SECTION 04: FIRSTAID

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

Eye Contact: Immediately flush eyes with copious quantities of water for at least 20 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.

Inhalation, Acute If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately. Get medical attention immediately.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs

Notes to physician: Treatment based on sound judgment of physician and individual reactions of patient. This product contains 13.7% v/v of methanol, a toxic substance having produced blindness and other serious effects on vision, as well as death. However, this product also contains the accepted antidote, ethanol (85.5% v/v).

SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

FLAMMABLE? No

IF YES, UNDER WHICH CONDITIONS?

FLASH POINT (TCC) (C): 15 °C

FLAMMABLE LIMITS: **LEL(% BY VOL.):** 2.2 **UEL(% BY VOL.):** 36

AUTO IGNITION TEMPERATURE (C) 385 - 427 °C

EXTINGUISHING MEDIA Use DRY chemicals, CO2, alcohol foam or water spray.

SPECIAL PROCEDURES: Use water spray to cool fire-exposed containers and structures. Use water spray to disperse vapors; re-ignition is possible. Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling points

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide. Carbon dioxide. Formaldehyde.

UNUSUAL FIRE AND EXPLOSION HAZARDS Not Available

SENSITIVITY TO STATIC DISCHARGE Not Available

SENSITIVITY TO MECHANICAL IMPACT: Not Available

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult local authorities.

Procedure for Clean Up: Isolate hazard area and restrict access. Stop leak only if safe to do so. Remove ignition sources and work with non-sparking tools.

Small spills: soak up with absorbent material and scoop into containers.

Large spills : prevent contamination of waterways. Dike and pump into suitable containers.

Clean up residual with absorbent material, place in appropriate container and flush with water.

SECTION 07: HANDLING AND STORAGE

Handling Procedures and Storage Requirements

Handling: For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. DO NOT handle or store near an open flame, heat, or other sources of ignition. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. DO NOT pressurize, cut, heat, or weld containers. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.

Storage: Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

GLOVES/TYPE: Neoprene gloves. Rubber gloves. Butyl rubber gloves.

RESPIRATOR/TYPE: Up to 1000 ppm, an approved organic vapour cartridge respirator can be used. For concentrations above 1000 ppm, an air-supplying respirator is recommended. The user should consult a respirator guide, such as the Canadian Standards Association's guide Z94.4- M1982.

EYE/TYPE: Chemical goggles; also wear a face shield if splashing hazard exists

OTHER/TYPE: Ensure that eyewash stations and safety showers are proximal to the work-station location.

ENGINEERING CONTROL Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Use explosion proof equipment.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE/APPEARANCE:	Liquid	ODOUR THRESHOLD:	N. Av.
ODOUR:	Alcohol	VAPOUR DENSITY (Air=1):	N. Av.
VAPOUR PRESSURE (mm Hg @ 20C):	N. Av.	SPECIFIC GRAVITY:	0.8105
EVAPORATION RATE (Ether = 1):	N. Av.	FREEZING POINT (C)	N. Av.
BOILING POINT (C):	75.6 °C	% VOLATILE (WT):	100%
Ph (% SOLUTION):	N. Av.		
SOLUBILITY IN WATER (% W/W)	Completely soluble		

SECTION 10: STABILITY AND REACTIVITY

CHEMICALLY STABLE? Stable

IF NO, UNDER WHICH CONDITIONS?

INCOMPATIBILITY WITH OTHER SUBSTANCES Yes

IF YES, WITH WHICH ONES: Oxidizing materials.

SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS Avoid excessive heat, open flames and all ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Carbon dioxide. Formaldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL

LC 50 OF MATERIAL, SPECIES AND ROUTE See Sec 2

LD 50 OF MATERIAL, SPECIES AND ROUTE See Sec 2

CARCINOGENICITY OF MATERIAL

REPRODUCTIVE EFFECTS:

IRRITANCY OF MATERIAL

SENSITIZING CAPABILITY OF MATERIAL

SYNERGISTIC MATERIALS

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.
Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION Class 3, Alcohols Toxic N.O.S. (Methanol)

UN NUMBER: 1986

PACKING GROUP: II

Special Provisions for Transport

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION B2, D1B, D2A, D2B

B2 FLAMMABLE LIQUIDS
D1B TOXIC MATERIALS
D2A VERY TOXIC MATERIALS
D2B TOXIC MATERIALS

SECTION 16: OTHER INFORMATION

ABBREVIATIONS USED: N.Av. = Not Available
N.App. / N.Ap. = Not Applicable

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SOURCES:

Supplier MSDS

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