



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name AEROBEX
Product use Aerosol. Disinfectant.
Product code 2641
Date of issue 03/22/12 **Supersedes** 05/22/09

Emergency Telephone Numbers

For MSDS Information:
 Technical Services Group
 Telephone (780) 453-8100
 (Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency

CANUTEC (24 Hours)
 (613) 996-6666 - Call Collect

Prepared By

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Section 2. Hazards Identification

Emergency overview

FLAMMABLE.

Do not breathe vapor or mist. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Eye contact. Inhalation.

Eyes

May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin

No known significant effects or critical hazards. May cause skin irritation. Skin inflammation is characterized by itching, scaling, or reddening. Defatting properties, may aggravate an existing dermatitis

Inhalation

Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Pre-existing respiratory disorders may be aggravated by over-exposure to this product.

Ingestion

Unlikely in this form.

Chronic effects

Contains material which may cause damage to the following organs: kidneys, lungs, liver, heart, brain, peripheral nervous system, eyes, central nervous system (CNS), pancreas.

Repeated or prolonged exposure to the substance can produce target organs damage. The onset of symptoms may be delayed. Prolonged or repeated contact may dry skin and cause irritation. Defatting to the skin.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	30 - 60
BUTANE; n-Butane	106-97-8	10 - 30
PROPANE; dimethylmethane propyl hydride	74-98-6	5 - 10
METHANOL; methyl alcohol; wood alcohol; columbia spirits	67-56-1	1 - 5

Section 4. First Aid Measures

Eye Contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Skin Contact

Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.

Ingestion Aspiration hazard if swallowed. Can enter lungs and cause damage. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.

Section 5. Fire Fighting Measures

Flash Point Closed cup: 23 to 37.8°C (73.4 to 100°F) [Tagliabue.]

Flammable Limits Lower: 1.8%
Upper: 9.2%

Flammability Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Auto-ignition Temperature

Fire-Fighting Procedures Use dry chemical or CO₂. or Foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus.

Fire hazard Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

Products of Combustion carbon oxides (CO, CO₂) and other unidentified organic compounds

Explosion hazard Not available.

Section 6. Accidental Release Measures

Spill Clean up Large spills are unlikely due to packaging.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Store and use away from heat, sparks, open flame or any other ignition source. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain product residue and can be hazardous. Wash thoroughly after handling.

Storage CONTENTS UNDER PRESSURE. Do not store above the following temperature: 49°C (120.2°F). Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Do not puncture or incinerate container. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name

ethanol

Exposure limits

CA Alberta Provincial (Canada, 4/2009).

8 hrs OEL: 1000 ppm 8 hour(s).

8 hrs OEL: 1880 mg/m³ 8 hour(s).

CA Quebec Provincial (Canada, 6/2008).

TWAEV: 1000 ppm 8 hour(s).

TWAEV: 1880 mg/m³ 8 hour(s).

CA British Columbia Provincial (Canada, 9/2010).

STEL: 1000 ppm 15 minute(s).

CA Ontario Provincial (Canada, 7/2010).

STEL: 1000 ppm 15 minute(s).

Butane

CA Alberta Provincial (Canada, 4/2009).

8 hrs OEL: 1000 ppm 8 hour(s).

CA British Columbia Provincial (Canada, 9/2010).

TWA: 600 ppm 8 hour(s).

STEL: 750 ppm 15 minute(s).

CA Quebec Provincial (Canada, 6/2008).

TWAEV: 800 ppm 8 hour(s).

TWAEV: 1900 mg/m³ 8 hour(s).

CA Ontario Provincial (Canada, 7/2010).

TWA: 800 ppm 8 hour(s).

propane

CA Alberta Provincial (Canada, 4/2009).

8 hrs OEL: 1000 ppm 8 hour(s).

CA British Columbia Provincial (Canada, 9/2010).

TWA: 1000 ppm 8 hour(s).

CA Quebec Provincial (Canada, 6/2008).

TWAEV: 1000 ppm 8 hour(s).

TWAEV: 1800 mg/m³ 8 hour(s).

CA Ontario Provincial (Canada, 7/2010).

TWA: 1000 ppm 8 hour(s).

methanol

CA Alberta Provincial (Canada, 4/2009). Absorbed through skin.

8 hrs OEL: 262 mg/m³ 8 hour(s).

8 hrs OEL: 200 ppm 8 hour(s).

15 min OEL: 250 ppm 15 minute(s).

15 min OEL: 328 mg/m³ 15 minute(s).**CA British Columbia Provincial (Canada, 9/2010). Absorbed through skin.**

TWA: 200 ppm 8 hour(s).

STEL: 250 ppm 15 minute(s).

CA Ontario Provincial (Canada, 7/2010). Absorbed through skin.

TWA: 200 ppm 8 hour(s).

TWA: 262 mg/m³ 8 hour(s).

STEL: 250 ppm 15 minute(s).

STEL: 328 mg/m³ 15 minute(s).**CA Quebec Provincial (Canada, 6/2008). Absorbed through skin.**

TWAEV: 200 ppm 8 hour(s).

TWAEV: 262 mg/m³ 8 hour(s).

STEV: 250 ppm 15 minute(s).

STEV: 328 mg/m³ 15 minute(s).**Personal Protective Equipment (PPE)****Eyes** Recommended: Safety glasses.**Hands and Body** Recommended: Nitrile gloves. Neoprene gloves.**Respiratory** Recommended: Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.**Section 9. Physical and Chemical Properties****Physical State** Liquid. [Aerosol.]**pH** 10 - 10.5**Boiling Point** Not determined.**Specific Gravity** 0.7517**Solubility** Soluble in the following materials: cold water and hot water.**Color** Clear. Colorless.**Odor** Floral.**Vapor Pressure** 125 @ 130 F**Vapor Density** >1 (Air = 1)**Evaporation Rate** <1 (Ether (anhydrous). = 1)**Freezing Point****VOC (Consumer)** 100 %**Section 10. Stability and Reactivity****Stability and Reactivity** The product is stable.**Incompatibility** Avoid contact with strong oxidizers, excessive heat, sparks or open flame. and isocyanates.**Hazardous Polymerization** Will not occur.**Hazardous Decomposition Products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.**Section 11. Toxicological Information****Carcinogenicity** Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.**Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LC50 Inhalation Vapor	Rat	20000 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Butane methanol	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
	LD50 Oral	Rat	5628 mg/kg	-

Section 12. Ecological Information**Environmental Effects** No known significant effects or critical hazards.**Aquatic Ecotoxicity**

ethanol	-	Acute EC50 17.921 mg/L Marine water	Algae - Green algae - Ulva pertusa	96 hours
	-	Acute EC50 2000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 25500 ug/L Marine water	Crustaceans - Brine shrimp - Artemia franchiscana - Larvae	48 hours
	-	Acute LC50 42000 ug/L Fresh water	Fish - Rainbow trout, donaldson trout -	4 days

	-	Chronic NOEC 0.375 ul/L Fresh water	Oncorhynchus mykiss Fish - Eastern mosquitofish - Gambusia holbrooki - Larvae - 3 days	12 weeks
methanol	-	Acute EC50 16.912 mg/L Marine water	Algae - Green algae - Ulva pertusa	96 hours
	-	Acute LC50 2500000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	-	Acute LC50 3289 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute LC50 >100000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	96 hours

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: D001
Classification: - [Hazardous waste.]
Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	1950	Aerosols, flammable	2.1	-		Explosive Limit and Limited Quantity Index 1
IMDG Class						-

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information

Canada

WHMIS (Canada)

Class A: Compressed gas.
Class B-5: Flammable aerosol.
Class D-1B: Material causing immediate and serious toxic effects
(Toxic).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other Information

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.
Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*