

Bortz Products

MATERIAL SAFETY DATA SHEET

DATE: AUGUST 8, 2002

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BORTZ PRODUCTS

4545 Ardine Street

South Gate, Ca. 90280

Business Day Phone Number: 1-323-562-9500

Emergency 24 Hour Phone: 1-800-424-9300 (Chemtrec)

This MSDS complies with 29CFR 1910.1200 (Hazard Communication Standard). **IMPORTANT: Read this MSDS before handling and disposing of this product.** PASS THIS INFORMATION ON TO EMPLOYEES, CUSTOMER AND USERS OF THIS PRODUCT.

SECTION 1 - CHEMICAL PRODUCT IDENTIFICATION

DENATURED ALCOHOL

5 Gallon	Product I.D. number (UPC)	28236 44050
Gallon	Product I.D. number (UPC)	28236 44010
Quart	Product I.D. number (UPC)	28236 44040
Pint	Product I.D. number (UPC)	28236 44080

SECTION 2 - INGREDIENT & REGULATORY INFORMATION

All components of this product are on the TSCA list.

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION

This product contains the indicated (*) toxic chemical's subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right To Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for this material.

SARA TITLE III INGREDIENTS

MATERIAL	CAS#	WT%	REG. SECTION	RQ (LBS)
Methanol*	67-56-1	< 80	(311,312,313, RCRA)	5000
Ethanol	64-17-5	N/A	(311,312)	None
Isopropanol	67-63-0	N/A	(311,312)	None

SARA SECTION 312/313 HAZARDS: Acute Health, Chronic Health, Fire

MATERIAL	CAS#	TWA+ (OSHA)	STEL (OSHA/ACGIH)	HAP
Methanol	67-56-1	200 ppm	250 ppm	Yes
Ethanol	64-17-5	1000 ppm	1000 ppm	No
Isopropanol	67-63-0	400 ppm	400 ppm	No

MATERIAL	CAS#	LOWEST KNOWN LETHAL DOSE DATA
		Lowest Known LD50 (Oral)
Methanol	67-56-1	1000.0 mg/kg (Man)
		Lowest Known LC50 (Vapors)
Isopropanol	67-56-1	1600 PPM (Rats)
		Lowest Known LD50 (Skin)
Isopropanol	67-56-1	16400.0 mg/kg (Rabbits)

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HAZARDS: HEALTH CODE: 2, FLAMMABILITY CODE: 3, REACTIVITY CODE: 0
HAZARD RATINGS: LEAST-0, SLIGHT-1, MODERATE-2, HIGH-3, EXTREME-4

SECTION 3. HAZARD IDENTIFICATION

CONTAINS : DENATURED ETHANOL
WARNING! FLAMMABLE!! POISON!!

ACUTE HAZARDS

EYE & CONTACT: Primary irritation to skin, defatting, dermatitis. Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION: Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation. Acute overexposure can cause damage to kidneys blood, nerves, liver & lungs. Repeated exposure over TLV can cause blindness.

SWALLOWING: Can be fatal or cause blindness if swallowed. Cannot be made non-poisonous. **POISON!** Can cause irreversible nervous system damage & death. Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting and death.

SUBCHRONIC HAZARDS / CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED: Chronic overexposure can cause damage to kidneys, blood, nerves, liver & lungs. Persons with sensitive skin, liver or kidney problems should avoid use.

SECTION 4. FIRST AID MEASURES AND PROCEDURES

EYE CONTACT: For eyes, immediately flush with plenty of water for at least 15 minutes & call Physician.

SKIN CONTACT: In case of contact with skin wash with water. If irritations persist get medical attention.

INHALATION: Remove victim to fresh air. If breathing is difficult, give oxygen. Get medical attention.

SWALLOWING: Do not give liquids if victim is unconscious or very drowsy. Induce vomiting promptly using physician's instructions or by having patient stick finger down throat. After vomiting has been induced, give 2 teaspoonsful of baking soda in a glass of water. **CALL A PHYSICIAN IMMEDIATELY!** Have patient lie down & keep warm. Cover eyes to exclude light.

SECTION 5. FIRE FIGHTING MEASURES

FLAMMABLE LIMIT IN AIR (% by volume)	6.4 Lower
FLASH POINT (test method) :	48 DEG F (TCC)
AUTO IGNITION TEMPERATURE	700 F (lowest component)

EXTINGUISHING MEDIA: NFPA Class B extinguishers (carbon dioxide or foam) for Class 1b liquid fires.

SPECIAL FIRE FIGHTING PROCEDURES: **DANGER! FLAMMABLE.** Clear fire area of unprotected personnel and isolate. Do not enter confined fire-space without full bunker gear. (Helmet with shield, bunker coats, gloves and rubber boots.) Use NIOSH approved positive-pressure self-containing breathing apparatus. Cool fire exposed containers with water.

UNUSUAL EXPLOSION PROCEDURES: **FLAMMABLE!** Containers exposed to intense heat from fire should be cooled with water to prevent vapor pressure build-up which could result in container rupture. Contain areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK: DANGER! FLAMMABLE. Eliminate all ignition sources. Handling equipment must be grounded to prevent spark. Isolate area and deny entry to unnecessary personnel. Wear appropriate respirator and protective clothing. Stop spill at source. Dike area and contain. Water fog may be useful in suppressing vapor cloud. Clean up remainder with absorbent materials. Mop up and dispose of. Persons without proper protection should be kept away from area until cleaned up.

WASTE DISPOSAL METHOD: Recycle or dispose of observing local, state and federal health, safety and pollution laws. If questions exist, contact the appropriate agencies.

OTHER PRECAUTIONS: Vapors may ignite explosively and spread long distances. Prevent vapor build-up.

SECTION 7. HANDLING AND STORAGE

HANDLING: Isolate from heat, sparks, electric equipment and open flame. Use only with adequate ventilation. Avoid breathing of vapor or vapor mist. Do not get in eyes, on skin or clothing. Wear OSHA standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse. Avoid free fall of liquid. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground containers and equipment when transferring. Do not flame out, saw, drill, braze or weld. Empty container very hazardous! Continue all label cautions! Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Hot organic chemical vapors or mist are susceptible to sudden spontaneous combustion when mixed with air.

STORAGE: Vapors may ignite explosively and spread long distances. Prevent vapor build-up. Put out pilot lights and turn off heaters, electric equipment and other ignition sources during use and until all vapors are gone. Do not store above 49°C / 120°F. Store large amounts in structures made for OSHA Class 1B liquids. Keep container tightly closed and upright when not in use to prevent leakage. Do not pressurize drum containers to empty them. Continue all label cautions!

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS: Use NIOSH approved positive-pressure self-contained breathing apparatus. Consult Safety Equipment Supplier. Use explosion proof equipment. Ventilate to keep vapors of this material below 110 ppm.

VENTILATION:

LOCAL EXHAUST:	NECESSARY
MECHANICAL (GENERAL)	ACCEPTABLE
SPECIAL:	ONE
OTHER:	ONE

PERSONAL PROTECTIONS: Wear OSHA standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse.

SECTION 9. PHYSICAL DATA

APPEARANCE:	Liquid, Water-White
ODOR:	Mild Alcohol
BOILING POINT:	63 66 33 C / 147 152 182 F
GRAVITY @ 60F	
SPECIFIC GRAVITY (water=1)	.793
POUNDS PER GALLON	6.603
TOTAL VOLATILE ORGANIC COMPOUNDS (TVOC) (G/L)	793.0
HAZARDOUS AIR POLLUTANTS	72.9% 578.2
VAPOR PRESSURE (mm of hg) @20c	86.1
VAPOR DENSITY (air = 1)	1.2
WATER ABSORPTION	complete
% VOLATILE BY VOLUME	100.0

SECTION 10. REACTIVITY DATA

STABILITY.

Stable

CONDITIONS TO AVOID:

Isolate heat, sparks, electric equipment and open flame. Prevent vapor accumulation.

HAZARDOUS DECOMPOSITION PRODUCTS

Burning can produce Carbon Monoxide and/or Carbon Dioxide

HAZARDOUS POLYMERIZATION

Will not occur

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