
ETHANOL, DENATURED

Company Information

Company's Name: REAGENTS, INC. on behalf of BROOKLYN TOOL & CRAFT (BT&C)

Company's Address: P.O. Box 240746, Charlotte, NC 28224; USA

Company's Info Ph #: 704/554-7474, 800/732-8484

Emergencies, call CHEMTREC: 800-424-9300

Date MSDS Prepared/Revised/Reviewed: 21 June 2010

1. Product Identification

Synonyms: 200 Proof Ethanol Denatured with Rubber Solvent; SDA2B-2; Shellac Solvent

Product Codes: SDA2B2200

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Ethyl Alcohol	64-17-5	99.5%	Yes
Rubber solvent (hydrocarbon distillate)	n/a	0.5%	Yes

3. Hazards Identification

Emergency Overview: DANGER! MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. VAPOR HARMFUL. FLAMMABLE! AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY AFFECT LIVER, BLOOD, REPRODUCTIVE SYSTEM.

Health Rating: 2 – Moderate

Flammability Rating: 3 - Severe

Reactivity Rating: 0 - None

Contact Rating: 1 - Slight

Lab Protective Equip: Goggles, Lab Coat, Apron, Gloves, Vent Hood, Class B extinguisher

Storage Color Code: Red (Flammable)

Potential Health Effects:

Inhalation: Exposure may cause irritation to the mucous membranes of the upper respiratory tract. Prolonged exposures to high concentrations may cause drowsiness, loss of appetite and inability to concentrate.

Ingestion: Cause headaches, gastritis, intoxication, blindness and, in acute cases, death.

Skin Contact: Causes skin irritation, cracking or flaking due to dehydration and defatting action.

Eye Contact: Can cause eye irritation. Splashes may cause temporary pain and blurred vision.

Chronic Exposure: Prolonged skin contact causes drying and cracking of skin. May affect the nervous system. May affect liver, blood, reproductive system.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Flash point: 14C (57F) **Flammable limits in air % by volume:** lel: 3.3; uel: 19

Explosion: Sealed containers may rupture when heated. Above the flash point, explosive vapor-air mixtures may be formed. Vapor may explode if ignited in an enclosed area. Vapors can flow along surfaces to distant ignition source and flash back.

Fire Extinguishing Media: Use alcohol foam, dry chemical or carbon dioxide. (Water may be ineffective.)

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-facepiece operated in the pressure demand or other positive pressure mode. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire. Vapors can flow along surfaces to distant ignition source and flash back.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do Not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: - OSHA Permissible Exposure Limit (PEL): 1000 ppm (TWA)

- ACGIH Threshold Limit Value (TLV): 1000 ppm (TWA), A4 - not classifiable as a human carcinogen

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details. Use explosion-proof equipment.

Personal Respirators (NIOSH-Approved): If the exposure limit is exceeded, wear a supplied air, full-facepiece respirator, air lined hood, or full-face piece self-contained breathing apparatus. This substance has poor warning properties.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Clear, colorless liquid.

Solubility: Miscible in water.

pH: No information found.

Boiling Point: 77C (171F)

Vapor Density (Air=1): 1.8

Evaporation Rate (BuAc=1): 3.5

Odor: Alcohol odor.

Specific Gravity: 0.79

% Volatiles by volume @ 21C (70F): 100

Melting Point: -90C

Vapor Pressure (mm Hg): 48.4 @ 20C (68F)

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: May form carbon oxides when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidants, silver salts, acid chlorides, alkali metals, metal hydrides, hydrazine, nitrates, perchlorates, sulfuric acid and many other substances. May attack some forms of plastics, rubber, and coatings. May react with metallic aluminum and generate hydrogen gas.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

Ethyl alcohol: oral rat LD₅₀: 7060 mg/kg; inhalation rat LC₅₀: 20,000 ppm/10H; Irritation data, eye, rabbit: 500 mg/24H moderate; Investigated as a tumorigen, mutagen, reproductive effector. Ethanol is not known nor anticipated to be carcinogenic and has not been assigned an IARC category.

Rubber solvent: No information found.

12. Ecological Information

Environmental Fate: When released into the soil, this material is expected to readily biodegrade, to leach into groundwater and to quickly evaporate. When released into water, this material is expected to readily biodegrade, may evaporate to a moderate extent and is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals, to be readily removed from the atmosphere by dry and wet deposition and to have a half-life between 1 and 10 days.

Environmental Toxicity: This material is not expected to be toxic to aquatic life. The LC₅₀/96-hour values for fish are over 100 mg/L.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Proper Shipping Name: ETHANOL

Hazard Class: 3

UN/NA: UN1170

Packing Group: II

15. Regulatory Information

-----\Chemical Inventory Status - \-----	--Canada--	
Ingredient	TSCA	DSL NDSL
Ethyl Alcohol (64-17-5)	Yes	Yes No

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
Ethyl Alcohol (64-17-5)	No	No	No	No

Ingredient	-----\Federal, State & International Regulations - Part 2\-----		
	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Ethyl Alcohol (64-17-5)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes
 SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No
 Reactivity: No (Mixture / Liquid)

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Warning: This material contains a substance known to the State of California to cause cancer and/or birth defects and/or other reproductive harm (ethanol).

16. Other Information

NFPA Ratings: Health: 2 Flammability: 3 Reactivity: 0

Product Use: Laboratory Reagent.

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