



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
030	Health Hazard 2 Fire Hazard 3	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	Alcohol, Anhydrous, Completely Denatured	Catalog Number(s).	A1038
	Denatureu	CAS#	Mixture.
Manufacturer	SPECTRUM QUALITY PRODUCTS INC.	RTECS	Not applicable.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Ethyl alcohol 200 Proof; Isopropyl alcohol; Methyl isobutyl
Commercial Name(s)	Not available.		ketone
Synonym	Not available.	CI# Not applicable.	
Chemical Name	Not applicable.		EMERGENCY (24hr) 800-424-9300
<b>Chemical Family</b>	Aliphatic alcohol or glycol. (Solvent.)	CALL (310) 5	16-8000
Chemical Formula	Not applicable.		
Supplier	SPECTRUM QUALITY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
Ethyl alcohol 200 Proof     Sopropyl alcohol     Methyl isobutyl ketone		64-17-5 67-63-0 108-10-1	1900 980 205	1230 300	125	89 10 1
Toxicological Data on Ingredients	Ethyl alcohol 200 Proof: ORAL (LD50): Acute: 7060 mg/kg [Rat.]. Isopropyl alcohol: ORAL (LD50): Acute: 5045 mg/kg [Rat]. 3600 mg/kg [Mouse]. 6410 mg/kg [Rabbit]. DERMAL (LD50): Acute: 12800 mg/kg [Rabbit]. Methyl isobutyl ketone: ORAL (LD50): Acute: 1600 mg/kg [Guinea pig]. 2671 mg/kg [Mouse]. 2080 mg/kg [Rat]. DERMAL (LD50): Acute: 20001 mg/kg [Rabbit].					

## Alcohol, Anhydrous, Completely Denatured

#### Section 3. Hazards Identification

Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Slightly hazardous in case of skin contact (permeator), of inhalation.

Potential Chronic Health Effects

**CARCINOGENIC EFFECTS**: Classified 3 (Not classifiable for human.) by IARC [Isopropyl alcohol].

**MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available.

**DEVELOPMENTAL TOXICITY**: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [Ethyl alcohol 200 Proof]. Classified Reproductive system/toxin/female, Development toxin [POSSIBLE] [Isopropyl alcohol].

Page Number: 2

The substance is toxic to kidneys, lungs, the nervous system, the reproductive system, mucous membranes, gastrointestinal tract, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4. First A	Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.		
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.		
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.		
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.		
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.		
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.		
<b>Serious Ingestion</b>	Not available.		

Section 5. Fire and Ex	xplosion Data
Flammability of the Product	Flammable.
<b>Auto-Ignition Temperature</b>	The lowest known value is 399°C (750.2°F) (Isopropyl alcohol).
Flash Points	The lowest known value is CLOSED CUP: 11.67°C (53°F). (TAG). OPEN CUP: 18.3°C (64.9°F). (Cleveland). (Isopropyl alcohol)
Flammable Limits	The greatest known range is LOWER: 3.3% UPPER: 19% (Ethyl alcohol 200 Proof)
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Extremely flammable in presence of open flames and sparks. Flammable in presence of heat. Slightly flammable to flammable in presence of oxidizing materials.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available.  Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.
Special Remarks on Fire Hazards	Containers should be grounded. CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME Vapor may travel considerable distance to source of ignition and flash back. (Ethyl alcohol 200 Proof)

Alcohol, Anhydrous	Completely Denatured	Page Number: 3
Special Remarks on Explosion Hazards	Not available.	

Section 6. Accidental Release Measures	
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill	Flammable liquid.  Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage		
Precautions	Keep locked up Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.	
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).	
Section 8. Expos	ure Controls/Personal Protection	
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their	

Section 8. Exposure	Controls/Personal Protection
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>Personal Protection</b>	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Ethyl alcohol 200 Proof  TWA: 1000 from OSHA (PEL) [United States]  TWA: 1900 from OSHA (PEL) [United States]  Isopropyl alcohol  TWA: 400 STEL: 500 from ACGIH (TLV) [United States] [1995]  TWA: 980 STEL: 1230 from ACGIH (TLV) [United States] [1995]  TWA: 400 (ppm) [United Kingdom (UK)]  Methyl isobutyl ketone  TWA: 50 STEL: 75 CEIL: 125 from ACGIH (TLV) [United States] [1995]  TWA: 205 STEL: 300 CEIL: 510 from ACGIH (TLV) [United States] [1995]  Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties			
Physical state and appearance	Liquid.	Odor	Pungent,fruity. (Strong.)
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	7 [Neutral.]	Color	Clear Colorless.
<b>Boiling Point</b>	The lowest known value is 78.5°C (173.3°F) (Ethyl	alcohol 20	00 Proof). Weighted average: 79.25°C (174.7°F)
<b>Melting Point</b>	May start to solidify at -84°C (-119.2°F) based on data for: Methyl isobutyl ketone. Weighted average: -111.34°C (-168.4°F)		
Critical Temperature	The lowest known value is 235°C (455°F) (Isopropyl alcohol).		
Specific Gravity	Weighted average: 0.79 (Water = 1)		
Vapor Pressure	The highest known value is 5.7 kPa (@ 20°C) (Ethyl alcohol 200 Proof). Weighted average: 5.53 kPa (@ 20°C)		
Vapor Density	The highest known value is 3.45 (Air = 1) (Methyl isobutyl ketone). Weighted average: 1.66 (Air = 1)		

Alcohol, Anhydro	ous, Completely Denatured	Page Number: 4
Volatility	Not available.	
Odor Threshold	The highest known value is 43 ppm (Isopropyl alcohol) Weighted average: 39.1 ppm	
Water/Oil Dist. Coeff.	The product is equally soluble in oil and water.	
Ionicity (in Water)	Not available.	
<b>Dispersion Properties</b>	See solubility in water, methanol, diethyl ether, n-octanol, acetone.	
Solubility	Easily soluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.	

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
<b>Instability Temperature</b>	Not available.	
<b>Conditions of Instability</b>	Not available.	
Incompatibility with various substances	Highly reactive with oxidizing agents.	
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Forms explosive peroxides on prolonged storage. (Methyl isobutyl ketone)	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information			
<b>Routes of Entry</b>	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.		
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 1600 mg/kg [Guinea pig]. (Methyl isobutyl ketone). Acute dermal toxicity (LD50): 12800 mg/kg [Rabbit]. (Isopropyl alcohol).		
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified 3 (Not classifiable for human.) by IARC [Isopropyl alcohol].  DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [Ethyl alcohol 200 Proof]. Classified Reproductive system/toxin/female, Development toxin [POSSIBLE] [Isopropyl alcohol].		
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion. Slightly hazardous in case of skin contact (permeator), of inhalation.		
Special Remarks on Toxicity to Animals	Not available.		
Special Remarks on Chronic Effects on Humans	Detected in maternal milk in human. (Isopropyl alcohol)		
Special Remarks on other Toxic Effects on Humans	Moderately toxic and narcotic in high concentrations. Experimentaly tumorigen. (Ethyl alcohol 200 Proof)		

Section 12. Ecological Information			
Ecotoxicity	Not available.		
BOD5 and COD	Not available.		
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products marise.		
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.		

### Alcohol, Anhydrous, Completely Denatured

Special Remarks on the Products of Biodegradation Not available.

## Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information		
<b>DOT Classification</b>	CLASS 3: Flammable liquid.	
Identification	: Denatured Alcohol (Ethyl alcohol 200 Proof) UNNA: NA1987 PG: II	
Special Provisions for Transport	Not available.	
DOT (Pictograms)		

#### Section 15. Other Regulatory Information and Pictograms

Federal	and	State
Regulat	ions	

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Ethyl alcohol 200 Proof

Page Number: 5

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Ethyl alcohol 200 Proof

California prop. 65: This product contains the following ingredients for which the State of California has found to

cause cancer which would require a warning under the statute: Ethyl alcohol 200 Proof

Rhode Island RTK hazardous substances: Isopropyl alcohol

Pennsylvania RTK: Ethyl alcohol 200 Proof; Isopropyl alcohol; Methyl isobutyl ketone

Florida: Isopropyl alcohol Minnesota: Isopropyl alcohol

Massachusetts RTK: Ethyl alcohol 200 Proof; Isopropyl alcohol; Methyl isobutyl ketone

New Jersey: Isopropyl alcohol

TSCA 8(b) inventory: Ethyl alcohol 200 Proof; Isopropyl alcohol; Methyl isobutyl ketone

TSCA 8(a) PAIR: Isopropyl alcohol

TSCA 8(d) H and S data reporting: Isopropyl alcohol: 12/15/86

TSCA 12(b) one time export: Isopropyl alcohol

SARA 313 toxic chemical notification and release reporting: Isopropyl alcohol 10%; Methyl isobutyl ketone 1%

CERCLA: Hazardous substances.: Methyl isobutyl ketone;

California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethyl alcohol 200 Proof		
vv at milgs	California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Ethyl alcohol 200 Proof		
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).		
Other Classifications	WHMIS (Canada)	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).	
	DSCL (EEC)	R11- Highly flammable. R20- Harmful by inhalation. R36/38- Irritating to eyes and skin. R60- May impair fertility.	

# Alcohol, Anhydrous, Completely Denatured Page Number: 6 **Health Hazard** (2) **HMIS (U.S.A.) National Fire Protection** Flammability Association (U.S.A.) Fire Hazard 3 Health Reactivity Reactivity 0 Specific hazard Personal Protection h WHMIS (Canada) (Pictograms) **DSCL** (Europe) (Pictograms) TDG (Canada) (Pictograms) ADR (Europe) (Pictograms) **Protective Equipment** Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

# Alcohol, Anhydrous, Completely Denatured Page Number: 7

Section 16. Other Information		
MSDS Code	A3400	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 2/5/2002.		Verified by Sonia Owen. Printed 2/5/2002.
CALL (310) 516-80	00	-

#### **Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.