SHELLACFINISHES

DENATURED ALCOHOL

Product Identity: CC Government Formula A Anhydrous

Material Safety Data Sheet

This material safety data sheet conforms to the requirements of ANSI Z400.1.

This MSDS complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

Important: Read this MSDS before handling & disposing of this product.

Pass this information on to employees, customers and users of this product.

Product Identity: CC Government Formula A Anhydrous

Company Identity: ShellacFinishes

Company Address: 7740 Goldfish Way

Company City: San Diego, CA 92129

Company Phone: (858) 780-2865

1. === Product Identification ===

Synonyms: Denatured Alcohol; Denatured Ethanol
CAS No.: Not applicable to mixtures.
Molecular Weight: Not applicable to mixtures.
Chemical Formula: Not applicable to mixtures.

SHELLACFINISHES

2. === Composition/Information on Ingredients ===

Ingredient	CAS No	Percent
Ethanol	64-17-5	80 - 90
Isopropanol	67-63-0	0 - 10
Methanol	67-56-1	0 - 5
Methyl Isobutyl Keytone	108-10-1	0 -2

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3. === Hazards Identification ===

	RISK STATEMENTS:
R11	Highly Flammable.
R41	Risk of serious damage to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R39/25	Toxic: danger of very serious irreversible effects if swallowed.
	SAFETY STATEMENTS:
S7	Keep container tightly closed.
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition. No smoking.
S24	Avoid contact with skin.
S45	In case of accident, or if you feel unwell, seek medical advice immediately. (Show the label where possible).

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4. ===First Aid Measures ===

EYE CONTACT:
For eyes, flush with plenty of water for 15 minutes & get medical attention.
SKIN CONTACT:
In case of contact with skin immediately remove contaminated clothing.
Wash thoroughly with soap & water. Wash contaminated clothing before reuse.
INHALATION:
After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.
SWALLOWING:
Induce vomiting promptly using physician's instructions or by having patient stick finger down throat. After vomiting has been induced, give two teaspoonsful of baking soda in a glass of water.CALL A PHYSICIAN. Never give anything by mouth to an unconscious person. Have patient lie down & keep warm. Cover eyes to exclude light.

ShellacFinishes
7740 Goldfish Way
San Diego, CA 92129

PHONE (858) 780-2865
E-MAIL sales@shellacfinishes.com

5. === Fire Fighting Measures ===

EXTINGUISHING MEDIA
NFPA Class B extinguishers(Carbon Dioxide or foam)for Class I B liquid fires.

SPECIAL FIRE FIGHTING PROCEDURES
Water spray may be ineffective on fire but can protect fire-fighters
& cool closed containers. Use fog nozzles if water is used.
Do not enter confined fire-space without full bunker gear.
(Helmet with face shield,bunker coats, gloves & rubber boots).
Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES
HIGHLY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE
Keep container tightly closed.
Isolate from oxidizers, heat, sparks, electric equipment & open flame.
Closed containers may explode if exposed to extreme heat.
Applying to hot surfaces requires special precautions.
Empty container very hazardous! Continue all label precautions!

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6. === Accidental Release Measures ===

CONTAINMENT TECHNIQUES
Stop spill at source. Dike area & contain.

CLEAN-UP PROCEDURES:
Clean up remainder with absorbent materials. Mop up & dispose of. Persons without proper protection should be kept from area until cleaned up.

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7. === Handling and Storage ===

HANDLING
Isolate from oxidizers, heat, sparks, electric equipment & open flame.
Use only with adequate ventilation. Avoid breathing of vapor or spray mist.
Avoid contact with skin & eyes.
Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

STORAGE
Do not store above 49 C/120 F. Store large amounts in structures made for OSHA Class I B liquids
Keep container tightly closed
& upright when not in use to prevent leakage.

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8. === Exposure Protection/Personal Protection ===

EXPOSURE CONTROLS
Ventilate to keep vapors of this material below 285 ppm.
If over TLV, in accordance with 29 CFR 1910.134,
use NIOSH approved positive-pressure self-contained breathing apparatus.
Consult Safety Equipment Supplier. Use explosion-proof equipment.

VENTILATION

LOCAL EXHAUST	: Necessary
MECHANICAL (GENERAL)	: Acceptable
SPECIAL	: None
OTHER	: None

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

WORK & HYGIENIC PRACTICES:
Provide readily accessible eye wash stations & safety showers.
Wash at end of each workshift & before eating, smoking or using the toilet.
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

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9. === Physical Data ===

APPEARANCE :		Liquid,Water-White	
ODOR :		Ketone	
BOILING RANGE :	63 77 117 C / 147 171 243 F		
AUTO IGNITION TEMPERATURE :	371 C / 700 F (Lowest Component)		
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	4.2		
FLASH POINT (TEST METHOD):	4 C / 40 F (TCC) (Lowest Component)		
FLAMMABILITY CLASSIFICATION: Class I B			
GRAVITY @ 60 F :			
API :		46.6	
SPECIFIC GRAVITY (Water=1) :		.794	
POUNDS/GALLON :		6.616	
VOC'S (>0.44 Lbs/Sq In) :	100.1 Vol. % /	795.2 g/L /	6.624 Lbs/Gal
TOTAL VOC'S (TVOC) :	100.0 Vol. % /	794.3 g/L /	6.616 Lbs/Gal
NONEXEMPT VOC'S (CVOC) :	100.0 Vol. % /	794.3 g/L /	6.616 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS) :	5.5 Wt. % /	43.7 g/L /	.364 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C		46.5	
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)		46.5	
VAPOR DENSITY (air=1) :		1.6	
WATER ABSORPTION :		Complete	
REFRACTIVE INDEX :		1.363	

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10. === Stability and Reactivity ===

STABILITY
Stable
CONDITIONS TO AVOID
Isolate from oxidizers, heat, sparks, electric equipment & open flame.
MATERIALS TO AVOID
Isolate from strong oxidizers such as permanganates,chromates & peroxides.
HAZARDOUS DECOMPOSITION PRODUCTS
Carbon Monoxide, Carbon Dioxide from burning.
HAZARDOUS POLYMERIZATION
Will not occur.

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11. === Toxicological Information ===

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Ethanol	64-17-5	1000 ppm	1000 ppm A4	No
Isopropanol	67-63-0	400 ppm	200 ppm A4	No
Methanol	67-56-1	200 ppm S	200 ppm S	Yes
Methyl Isobutyl Ketone	108-10-1	100 ppm	50 ppm	Yes

Each component showing `Yes' under "HAP" is an EPA Hazardous Air Pollutant.

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Isopropanol	67-63-0	None Known	400 ppm
Methanol	67-56-1	None Known	250 ppm
Methyl Isobutyl Ketone	108-10-1	None Known	75 ppm

ACUTE HAZARDS

EYE & SKIN 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 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 & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGREVATED

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

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:
This product has no carcinogens listed by IARC,NTP,NIOSH,
OSHA or ACGIH, as of this date, greater or equal to 0.1%.
Absorption thru skin may be harmful. Studies with laboratory animals
indicate this product can cause damage to fetus.

12. === Ecological Information ===

MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA
		LOWEST KNOWN LD50 (ORAL)
Methanol	67-56-1	1000.0 mg/kg(Man)
		LOWEST KNOWN LC50 (VAPORS)
Methyl Isobutyl Ketone	108-10-1	4000 ppm (Rats)
		LOWEST KNOWN LD50 (SKIN)
Isopropanol	67-63-0	16400.0 mg/kg (Rabbits)

AQUATIC ANIMAL INFORMATION:
The most sensitive known aquatic group to any component of this product is:
Goldfish 250 ppm or mg/L (24 hour exposure).
Keep out of sewers and natural water supplies.
MOBILITY
This material is a mobile liquid.
DEGRADABILITY
This product is completely biodegradable.
ACCUMULATION
This product does not accumulate or biomagnify in the environment.

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13. === Disposal Consideration ===

Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws.
If questions exist, contact the appropriate agencies.

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14. === Transport Information ===

DOT SHIPPING NAME: Alcohols,n.o.s.
(Methanol,Methyl Isobutyl Ketone),3,UN1987,PG-II
DRUM LABEL: (FLAMMABLE LIQUID)
IATA / ICAO: Alcohols,Toxic,n.o.s.
(Methanol,Methyl Isobutyl Ketone),3,UN1986,PG-II
IMO / IMDG: Alcohols,Toxic,n.o.s.
(Methanol,Methyl Isobutyl Ketone),3,UN1986,PG-II
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 131

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15. === Regulatory Information ===

EPA REGULATION:
SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list.
SARA Title III Section 313 Supplier Notification
This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ(LBS)
Ethanol	64-17-5	85 (311,312)	None
Isopropanol	67-63-0	8 (311,312)	None
*Methanol	67-56-1	< 5 (311,312,313,RCRA)	5000
*Methyl Isobutyl Ketone	108-10-1	< 2 (311,312,313,RCRA)	5000

IF > 111430 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" OF METHANOL IS EXCEEDED.

STATE REGULATIONS:
THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS
INTERNATIONAL REGULATIONS
The components of this product are listed on the chemical inventories of the following countries:
Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

16. === Other Information ===

HAZARD RATINGS:
HEALTH (NFPA): 1
HEALTH (HMIS): 3
FLAMMABILITY: 3
REACTIVITY: 0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING
Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications.
All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.
Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.
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