Company Name: Superior Stone Products **Product Name: Denatured Alcohol**

Issue Date: 10/14/24 Revision Date: 10/14/24 SDS Number: 200-55001



Section I – Product and Company Identification

Product Identifier: Denatured Alcohol

Product Description/Use: All Proper and Legal Purposes

Product Code: 55001 Chemical Family: Alcohol

Company:

Superior Stone Products 8580 Byron Commerce Drive Byron Center, MI 49315

616-583-0171

24 Hour Emergency Telephone Number:

CHEMTREC 800-424-9300

Section II – Hazards Identification

GHS Hazard Classification(s):

Flammable Liquid: Category 2 Acute Toxicity, Inhalation: Category 3

Serious Eye Damage/Irritation: Category 2A Carcinogenicity: Category 2

Reproductive Toxicity: Category 1

Specific Target Organ Systemic Toxicity - Single Exposure: Category 1



Symbols:

Hazard Statements:

H225: Highly Flammable liquid and vapor.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H351: Suspected of causing cancer.

H360: May damage fertility or the unborn child.

Signal Word(s): Danger

H370: Causes damage to organs.

Precautionary Statements:

P201: Obtain special instruction before use.

P202: Do not handle until all safety precautions have

been read and understood.

P210: Keep away from heat/sparks/open flames/hot

surfaces - No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting

equipment.

P242: Use online non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe mist or vapor.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this

product.

P271: Do not eat, drink or smoke when using this

product.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

Precautionary Statements: - Response:

P301+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned, get medical

advice/attention.

P311: Call a POISON CENTER/doctor.

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P337+313: If eye irritation persists: Get medical P370+P378: In case of fire: Use appropriate media to

attention. extinguish.

Precautionary Statements: - Storage:

P403+233+235: Store in a well-ventilated place. Keep P405: Store locked up.

container tightly closed. Keep cool.

Precautionary Statements: - Disposal:

P501: Dispose of contents and containers in accordance with local/regional/national/international regulations.

Hazards not otherwise classified: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor.

Supplemental Information: 1% of the mixture consists of component(s) of unknown acute oral toxicity. 94.32% of the mixture consists of component(s) of unknown acute dermal toxicity.

Section III – Composition/Information on Ingredients

Substance/Mixture: Mixture

Substance/Mixture: Mixture				
<u>Ingredient</u>	Synonym(s)	% (By Weight)	CAS#	EINECS Nc.
Ethanol	ethanol; alcohol; ETOH; methyl carbinol; ethyl hydrate; grain alcohol	90-95%	64-17-5	200-578-6
Methanol	carbinol; columbian spirits; methanol; pyroligneous spirit; wood alcohol; wood naphtha; wood spirit	4-5%	67-56-1	200-659-6
2-pentanone, 4-Methyl	isobutyl methyl ketone; methyl isobutyl ketone; Hexone; MIBK	1%	108-10-1	203-550-1
Acetic Acid Ethyl Ester	acetic ester; acetic ether; ethyl ester of acetic acid; ethyl ethanoate	1%	141-78-6	205-500-4
Acetaldehyde	methylbenzene; methyl benzol; phenyl methane; toluol	<0.05%	75-07-0	200-836-8

Section IV - First Aid Measures

If Swallowed: Rinse mouth. Get medical attention of symptoms occur.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

If Inhaled: Move to fresh air. Call a physician if symptoms develop or persist.

Eyes: Immediately flush with copious amounts of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Most important symptoms/effects, acute and delayed: Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information: Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

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Section V - Fire Fighting Measures

Suitable Extinguishing Media: Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions: In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials. **General fire hazards:** Highly flammable liquid and vapor.

Section VI - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

Section VII - Handling and Storage

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-

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proof equipment. Do not breathe mist/vapors. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22 1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities: Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Section VIII - Exposure Controls/Personal Protection

Likely Routes of Exposure: Inhalation, Dermal, Ingestion.

Control Parameters

Occupational exposure Limits:

	United States				Australia			
	OSHA-PEL		ACGIH-TLV		NIOSH-REL		SWA	
	TWA	Ceiling	TWA	STEL	TWA	STEL	TWA	STEL
Ethanol	1000 ppm	N/A	N/A	1000 ppm	1000 ppm	N/A	200 ppm	800 ppm
Methanol	200 ppm	N/A	200 ppm	250 ppm	200 ppm	250 ppm		
2-pentanone, 4-Methyl	100 ppm	N/A	20 ppm	75 ppm	50 ppm	75 ppm	20 ppm	75 ppm
Acetic Acid Ethyl Ester	400 ppm	N/A	400 ppm	N/A	400 ppm	N/A	200 ppm	400 ppm
Acetaldehyde	200 ppm	N/A	N/A	N/A	N/A	N/A	20 ppm	N/A

11-21-4 (1-1-4

Engineering Controls: Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment: The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Hygiene Measures: Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, or mists. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand Protection: Wear appropriate chemical resistant gloves.

Body Protection: Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory Protection: Chemical respirator with organic vapor cartridge and full facepiece.

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Section IX – Physical and Chemical Properties

Physical State: Liquid

Color: Clear Odor: Alcohol

Odor Threshold: Not available

pH: Not Available

Melting Point: Not Available

Boiling Point: 172.79°F/78.22°C (estimated)

Flash Point: 40°F/-4.4°C
Burning Time: Not Available
Burning Rate: Not Available
Evaporation Rate: Not Available

Flammability (solid, gas): Not Applicable

Lower and Upper Flammable Limits: Lower: Not Available

Upper: Not Available

Vapor Pressure: Not Available Vapor Density: Not Available Relative Density: Not Available

Solubility: Not Available

Partition Coefficient: n-Octanol/water: Not Available

Auto-Ignition temperature: Not Available **Decomposition Temperature:** Not Available

SADT: Not Available **Viscosity:** Not Available.

Section X - Stability and Reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability: Material is stable under normal conditions.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatibility (materials to avoid): Strong oxidizing agents.

Hazardous Decomposition: No hazardous decomposition products are known.

Section XI - Toxicological Information

Acute Toxicity: Toxic if inhaled.

<u>Product</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	Exposure
Denatured Alcohol	Inhalation	-	3.378 mg/l	-
	Vapor			
	ATEmix			
Ingredient Name	<u>Result</u>	<u>Species</u>	<u>Dose</u>	Exposure
2-Pentanone, 4-Methyl-	LD50 Dermal	Rabbit	>16000 mg/kg	-
(CAS 108-10-1)	LC50 Inhalation	Rat	8.2 mg/kg	4 hours
	LD50 Oral	Rat	2080 mg/kg	-
Acetaldehyde (CAS 75-	LD50 Dermal	Rabbit	3540 mg/kg	-
07-0)	LD50 Oral	Rat	661 mg/kg	
Acetic Acid Ethyl Ester	LD50 Oral	Rat	5.6 mg/kg	-
(CAS 141-78-6)				
Ethanol (CAS 64.17.5)	LD50 Oral	Rat	5.6 g/kg	-

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4.5 hours

4 hours

6 hours

Methanol (CAS 67-56-1) LD50 Dermal Rabbit 15800 mg/kg

LC50 Inhalation Cat 85.41 mg/l

Rat 64000 ppm 87.5 mg/l

LD50 Oral Dog 8000 mg/kg

 Monkey
 2 g/kg

 Mouse
 7300 mg/kg

 Rabbit
 14.4 g/kg

 Rat
 5628 mg/kg

Skin Corrosion/Irritation: Due to partial or complete lack of data the classification is not possible.

Sensitization: Due to partial or complete lack of data the classification is not possible. **Mutagenicity:** Due to partial or complete lack of data the classification is not possible.

Carcinogenicity: Classification:

<u>Product/Ingredient Name</u> <u>OSHA IARC NTP</u> 2-Pentanone, 4-Methyl- (CAS 108-10-1) Not Listed 3B -

Acetaldehyde (CAS 75-07-0) Not Listed 2B Reasonably Anticipated to be a Human Carcinogen.

Reproductive Toxicity: Possible reproductive hazard. May damage fertility or the unborn child.

Teratogenicity: Not available

Specific Target Organ Toxicity (Single Exposure): Causes damage to organs.

Specific Target Organ Toxicity (Repeated Exposure): Due to partial or complete lack of data the classification is not

possible.

Aspiration Hazard: Due to partial or complete lack of data the classification is not possible.

Information on likely routes of exposure: Inhalation, Dermal, Ingestion.

Inhalation: Toxic if inhaled. May cause damage to organs by inhalation. **Skin contact:** No adverse effects due to skin contact are expected.

Eye contact: Causes serious eye irritation.

Ingestion: Expected to be a low ingestion hazard.

Section XII - Ecological Information

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product/Ingredient Name	Result	<u>Species</u>	<u>Exposure</u>
2-Pentanone, 4-Methyl- (CAS 108-10-1)	LC50 492-593 mg/l	Fathead Minnow – (Pimephales promelas)	96 hours
Acetaldehyde (CAS 75-	EC50 39.4-59.1 mg/l	Water Flea – (Daphnia magna)	48 hours
07-0)	LC50 28-34 mg/l	Fathead Minnow – (Pimephales promelas)	96 Hours
Acetic Acid Ethyl Ester (CAS 141-78-6)	LC50 200.32-225.42 mg/l	Indian Catfish (Hetropneustes fossilis)	96 hours
Ethanol (CAS 64.17.5)	EC50 7.7-11.2 mg/l	Water Flea – (Daphnia magna)	96 hours
, ,	LC50 >100 mg/l	Fathead Minnow- (Pimephales promelas)	48 hours
Methanol (CAS 67-56-1)	EC50 >10000 mg/l	Water Flea – (Daphnia magna)	48 hours
,	LC50 >100 μg/l	Fathead Minnow – (Pimephales	96 hours

Persistence and Degradability: No data is available on the degradability of any ingredients in the mixture. **Bioaccumulative Potential:**

Partition coefficient n-octanol I water (log Kow)

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> 2-Pentanone, 4-Methyl- 1.31 Acetic Acid Ethyl Ester 0.73 Ethanol -0.31 Methanol -0.77

Mobility in Soil: No data available.



Section XIII - Disposal Considerations

Disposal Instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/international regulations.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues/unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section XIV - Transportation Information

DOT (DEPARTMENT OF TRANSPORTATION) Canada (TDG)

Technical Name: Ethanol Solution Technical Name: Ethanol Solution

Hazard Class: 3
NA/UN Number: 1170
Packing Group: II
Marine Pollutant: No
Hazard Class: 3
NA/UN Number: 170
Packing Group: II
Packing Group: II

Please refer to DOT regulations for more info

Please refer to TDG Regulations for more info

International Air Transport Association (IATA)

International Maritime Organization (IMO)

Technical Name: Ethanol Solution Technical Name: Ethanol Solution

Hazard Class: 3

NA/UN Number: 1170

Packing Group: II

ERG Code: 3L

Marine Pollutant: No

Hazard Class: 3

NA/UN Number: 1170

Packing Group: II

EmS: F-E, S-D

Marine Pollutant: No

Please refer to IATA regulations for more info.

Please refer to IMO regulations for more info.

Special Precautions for User: Transport within users' premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the products know what to do in the event of an accident or spillage.

Section XV - Regulatory Information

United States Federal Regulations:

Sara Title III - Section 311/312

<u>Criteria</u> <u>Yes/No</u>
Immediate (Acute) Health Effects: Yes
Chronic (Delayed) Health Effects: Yes
Fire Hazard: Yes

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Sudden Release of Pressure Hazard: No Reactivity: No

Sara Title III - Section 313

Product/Ingredient NameCAS Number%2-Pentanone, 4-Methyl-108-10-11%Methanol67-56-14.68%

State Regulations:

WARNING – This product can expose you to chemicals including 2-PENTANONE, 4-METHYL-, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Section XVI - Other Information

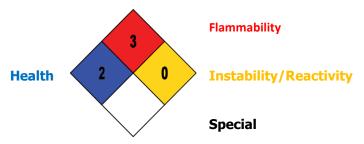
Hazardous Material Information System (United States):

Health 4
Flammability 3
Physical Hazards 0

Caution: HMIS® rating are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating are not required on SDSs under 29 CFR 19101200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (United States):



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPS 49 and NFPA 325



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which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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