

# SAFETY DATA SHEET

Company Name: Superior Stone Products

**Product Name: Acetone**

Issue Date: 10/14/2024

Revision Date: 10/14/2024

SDS Number: 200-55000



## Section I –Product and Company Identification

**Product Identifier:** Acetone

**Product Description/Use:** All proper and legal purposes.

**Product Code:** 55000

**Chemical Family:** Ketone

**Company:**

Superior Stone Products, Inc.

8580 Byron Commerce Drive

Byron Center, MI 49546

Phone: (616) 583-0171

**24 Hour Emergency Telephone Number:  
CHEMTREC 800-424-9300**

## Section II – Hazards Identification

**GHS Hazard Classification(s):**

**Flammable Liquid:** Category 2

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

**Specific Target Organ Systemic Toxicity - Single Exposure:** Category 3, narcotic effects.



**Symbols:**

**Hazard Statements:**

H225: Highly Flammable liquid and vapor.

H319: Causes serious eye irritation.

**Signal Word(s): Danger**

H336: May cause drowsiness or dizziness.

**Precautionary Statements:**

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.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing mist/vapors.

P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statements: - Response:**

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

P312: Call a POISON CENTER/doctor if you feel unwell.

P303+P361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

P337+313: If eye irritation persists: Get medical advice/attention.

P370: In case of fire: Use appropriate media to extinguish.

**Precautionary Statements: - Storage:**

P403+233: Store in a well-ventilated place. Keep container tightly closed.

P403+235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

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## Precautionary Statements: - Disposal:

P501: Dispose of contents and container 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. May cause flash fire or explosion.

## Section III – Composition/Information on Ingredients

Substance/Mixture: Substance

<u>Ingredient</u>	<u>Synonym(s)</u>	<u>% (By Weight)</u>	<u>CAS#</u>	<u>EINECS No.</u>
Acetone	dimethyl ketone; ketone propane; 2-propanone	100%	67-64-1	200-662-2

## Section IV – First Aid Measures

**If Swallowed:** Rinse mouth. Get medical attention if 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:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call poison center or doctor/physician if you feel unwell.

**Eyes:** Immediately flush eyes with plenty 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:** May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**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 under observation. Symptoms may be delayed.

**General information:** Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Wash contaminated clothing before reuse.

## Section V - Fire Fighting Measures

**Suitable Extinguishing Media:** Water fog. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). 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.

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## 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. Avoid breathing 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. This product is miscible in water.

**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. 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:** Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using, do not smoke. 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-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes. Wear appropriate personal protective equipment. 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**

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## Occupational exposure Limits:

	United States						Australia	
	OSHA-PEL		ACGIH-TLV		NIOSH-REL		SWA	
	TWA	Ceiling	TWA	STEL	TWA	STEL	TWA	STEL
Acetone	1000 ppm	N/A	N/A	N/A	250 ppm	N/A	250 ppm	500 ppm

**Appropriate 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:** Wash Hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Chemical respirator with organic vapor cartridge and full facepiece.

### Skin protection

**Hand protection:** Wear appropriate chemical resistant gloves.

**Other:** Wear appropriate chemical resistant clothing.

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

**Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations:** 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.

## Section IX – Physical and Chemical Properties

**Physical State:** Liquid

**Color:** Clear/Colorless

**Odor:** Pungent

**Odor Threshold:** Not Available

**pH:** 7

**Melting/Freezing Point:** -139°F/-95°C

**Boiling Point:** 132.94°F/56.08°C

**Flash Point:** -4°F/20°C

**Evaporation Rate:** Not Available

**Flammability (solid, gas):** Not Applicable

**Lower and Upper Explosive (Flammable) Limits:** Lower: 2.6%

Upper: 12.8% (v)

**Vapor Pressure:** Not Available

**Vapor Density:** 2 (Air = 1)

**Relative Density:** Not Available

**Solubility:** Miscible

**Partition Coefficient: n-Octanol/water:** -0.24

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**Auto-Ignition temperature:** 869°F/456°C

**Decomposition Temperature:** Not Available

**SADT:** Not Available

**Viscosity:** Not Available.

## Section X - Stability and Reactivity

**Reactivity:** 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):** Acids. Strong oxidizing agents.

**Hazardous Decomposition:** No hazardous decomposition products are known.

## Section XI - Toxicological Information

Information on likely routes of exposure

**Inhalation:** May cause drowsiness or dizziness. Headache. Nausea, vomiting.

**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.

**Symptoms related to the physical, chemical and toxicological characteristics:** May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

**Acute Toxicity:** Not Known

<u>Product/Ingredient Name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>
Acetone	LD50 Oral	Rat	5,080 mg/kg

**Skin corrosion/irritation:** Due to partial or complete lack of data the classification is not possible.

**Serious eye damage/eye irritation:** Causes serious eye irritation.

**Respiratory or skin sensitization**

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

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

**Germ cell mutagenicity:** Due to partial or complete lack of data the classification is not possible.

**Carcinogenicity**

**IARC Monographs. Overall Evaluation of Carcinogenicity:** Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053):** Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens:** Not listed.

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

**Specific target organ toxicity - single exposure:** May cause drowsiness or dizziness.

**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.

**Further information:** Acetone has increased the liver toxicity of chemicals, such as carbon tetrachloride, chloroform and trichloroethylene. Acetone has also increased the lung toxicity of styrene and the toxicity acrylonitrile and 2,5 hexanedione in laboratory animals. Acetone also appears to inhibit the metabolism and elimination of ethyl alcohol, thereby potentiating its toxicity. Acetone can increase or decrease the toxicity of 1,2-dichlorobenzene, depending on the concentration of Acetone.

## Section XII - Ecological Information

Toxicity:

<u>Product/Ingredient Name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
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Acetone	EC50 10294-17704 mg/l	Water Flea - Daphnia magna	48 hours
	LC50 4740-6330 mg/l	Fish – Rainbow Trout, Donaldson trout (Oncorhynchus mykiss)	96 hours

**Persistence and Degradability:** No data is available on the degradability of this product.

**Bioaccumulative Potential:** Partition coefficient n-octanol / water (log Kow) -0.24.

**Mobility in Soil:** This product is miscible in water and may not disperse in soil.

**Other adverse effects:** The product contains volatile organic compounds which have a photochemical ozone creation potential.

## Section XIII - Disposal Considerations

**Disposal Instructions:** Dispose of this material and its container to hazardous or special waste collection point. 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. Disposed of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations:** Disposed 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.

**US RCRA hazardous Waste U List: Reference:** Acetone (CAS 67-64-1) U002

## Section XIV - Transportation Information

### DOT (DEPARTMENT OF TRANSPORTATION)

Technical Name: Acetone  
Hazard Class: 3  
NA/UN Number: 1090  
Packing Group: II  
Marine Pollutant: No

Please refer to DOT regulations for more info

### Canada (TDG)

Technical Name: Acetone  
Hazard Class: 3  
NA/UN Number: 1090  
Packing Group: II

Please refer to TDG Regulations for more info

### International Air Transport Association (IATA)

Technical Name: Acetone  
Hazard Class: 3  
NA/UN Number: 1090  
Packing Group: II  
ERG Code: 3H  
Marine Pollutant: No

Please refer to IATA regulations for more info.

### International Maritime Organization (IMO)

Technical Name: Acetone  
Hazard Class: 3  
NA/UN Number: 1090  
Packing Group: II  
EmS: F-E, S-D  
Marine Pollutant: No

Please refer to IMO regulations for more info.

**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling. Transport information on packaging may be different from that listed. The shipper is legally required to provide, certify, and receive training on the transportation data for any shipment.

## 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

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Fire Hazard: Yes  
Sudden Release of Pressure Hazard: No  
Reactivity: No

## Sara Title III - Section 313

Criteria	Product/Ingredient Name	CAS Number	%
Supplier Notification	Acetone	67-64-1	100%

## State Regulations:

**California Prop. 65:** This product is not known to contain a chemical known to the State of California to cause cancer or other reproductive harm.

## Section XVI - Other Information

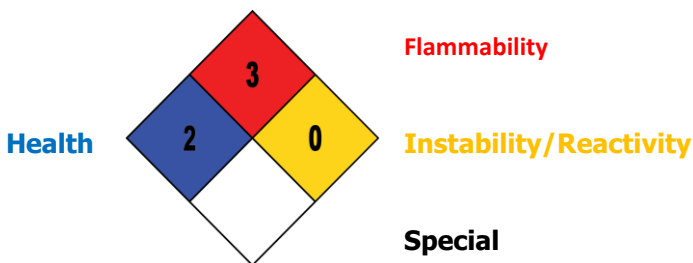
### Hazardous Material Information System (United States):

Health 2  
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 NFPA 49 and NFPA 325 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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