TheSage.com
Majestic Mountain Sage Inc ®

Preservative, Sharomix AM24
Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Name: Preservative, Sharomix AM24
Product Code: 508-711X

1.2 Intended Use: Compound used in customer substance/mixture/product.

1.3 Supplier:
Majestic Mountain Sage Inc
2490 S 1350 W
Nibley, Utah 84321 - United States of America
T 435.755.0863 - F 435.755.2108
www.TheSage.com

1.4 Emergency Telephone Number
No additional information available.

SECTION 2: Hazards Identification

2.1 GHS Classification

Skin Irritation, Category 2	H315: Causes skin irritation.
Eye Irritation, Category 2	H319: Causes serious eye irritation.

2.2 Label Elements

Hazard Pictograms

Signal Word: Warning.

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary Statements

Prevention:

P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P362+P364	Take off contaminated clothing.

2.3 Hazards Not Otherwise Classified (HNOC)

Not applicable.

2.4 Other Information

Not applicable.

SECTION 3: Composition/Information on Ingredients

3.1 Substance/Mixture

Hazardous Components:

Chemical Name	CAS No.	%
octane-1,2-diol	1117-86-8	23-27
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides, 3-(dodecyldimethylammonio)-2-hydroxypropyl ethers, chlorides, polymers with 1, 3-dichloro-2-propanol	1309865-14-2	9.0-9.9
didecyldimethylammonium chloride	7173-51-5	2.2-2.4

3.2 Hazardous Ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop is exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by a medical personnel. If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Inhalation: Remove from exposure site to fresh air and keep at rest. If not breathing, give artificial respiration. Obtain medical advice.

First-aid protection: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Acute: Eye contact causes serious eye irritation.

Skin contact causes skin irritation

Over-exposure: Eye contact may cause pain or irritation, watering, and redness.
Skin contact may cause irritation and redness.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: No hazards which require specific first aid measures. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, foam, Carbon dioxide (CO^2), or dry chemical.

Unsuitable: High volume water jet.

5.2 Specific Hazards Arising From the Chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous Combustion Products:
Carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds.

5.3 Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

6.2 Environmental Precautions

Prevent product from entering drains, waterways, soil, and sewers. Prevent further leakage or spillage if safe to do so. If the product contaminates environment or drains inform respective authorities.

6.3 Methods and Material for Containment and Cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Was spillage into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Do not breathe vapors/dust. Do not smoke. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Container hazardous when empty. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protect see Section 8. Dispose of rinse water in accordance with local and national regulations.

7.2 Conditions for Safe Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Guidelines: Contains no substances with occupational exposure limit values.

8.2 Appropriate Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected pr apparent adverse effects.

8.3 Individual Protection Measures, Such as Personal Protective Equipment

Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a ridk assessment indicates this is necessary to avoid exposure to liquid splashed, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggled. Wear safety glasses with side protection in accordance with EN 166.

Skin/Body Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should

	be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory Protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: Combination filtering device (DIN EN 14387), Filter type: A-P2
General Hygiene Considerations:	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.
Environmental exposure:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical State:	Liquid
Color:	Colorless to light yellow
Odor:	No information available
Odor Threshold:	No information available

Property	**Values**
pH:	No information available
Melting/Freezing Point:	No information available
Boiling Point/Range:	No information available
Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Flammability Limit in Air	
Upper Flammability Limit:	No information available
Lower Flammability Limit:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	0.907 to 1.108
Water Solubility:	No information available
Solubility in Other Solvents:	No information available
Partition Coefficient:	No information available
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Kinematic Viscosity:	No information available
Dynamic Viscosity:	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available

SECTION 10: Stability and Reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid

Keep away from heat, sparks and flame.

10.5 Incompatible Materials

Strong acids, strong alkalis, and strong oxidizing agents.

10.6 Hazardous Decomposition Products

In case of fire irritating, corrosive and/or toxic gases can be formed. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity:

Not classified based on available information.

Product/ ingredient name	Result	Species	Dose	Exposure	Remarks
octane-1,2-diol	LC50 Inhalation Vapor [OECD 401]	Rat - Male, Female	>7.015 mg/l	4 hours	Mortality: None.
	LC50 Inhalation Vapor	Rat	4.1 mg/l	8 hours	Mortality: None.
	LD50 Oral	Rat	2200 mg/kg	-	-
didecyldimethyl ammonium chloride	LD50 Dermal [OECD 402]	Rat - Male, Female	>1000 mg/kg	-	Mortality: None.
	LD50 Oral [OECD 401]	Rat - Male, Female	329 mg/kg	-	-

Acute Toxicity Estimates:

Route	ATE value
Oral	6867.9 mg/kg

Irritation/Corrosion:
Skin: Causes skin irritation.
Eyes: Causes severe eye irritation.

Product/ ingredient name	Result	Species	Exposure	Observation	Remarks
octane-1,2-diol	Skin - Non-irritating to the skin. Eyes - Severe irritant	Rabbit Rabbit	24 hours -	72 hours 16 days	- -
didecyldimethyl ammonium chloride	Skin - Severe irritant [OECD 404] Eyes - Severe irritant	Rabbit Rabbit	1 hour -	14 days -	- - -

Sensitization:
Not classified based on available information.

Product/ ingredient name	Result	Species	Route of Exposure	Remarks
octane-1,2-diol	Not sensitizing [OECD 429]	Mouse	Skin	-
didecyldimethylammonium chloride	Not sensitizing [OECD 406]	Guinea pig	Skin	-

Mutagenicity:
Not classified based on available information.

Product/ ingredient name	Result	Test	Experiment	Subject	Remarks
octane-1,2-diol	Negative	OECD 471	In vitro	Bacteria	-
	Negative	OECD 473	In vitro	Mammalian-Animal Cell: Somatic	-
	Negative	OECD 476	In vitro	Mammalian-Animal Cell: Somatic	-
didecyldimethyl ammonium chloride	Negative	OECD 471	In vitro	Bacteria	-
	Negative	OECD 473	In vitro	Mammalian-Animal Cell: Somatic	-

Carcinogenicity:
Not classified based on available information.

Product/ ingredient name	Result	Species	Dose	Exposure	Remarks
didecyldimethyl ammonium chloride	Negative - Oral [OECD 435]	Rat - Male	66.1 mg/kg NOAEL	104 weeks; 7 days per week	- -

Reproductive Toxicity:
Not classified based on available information.

Product/ ingredient name	Maternal toxicity	Fertility	Develop-mental toxin	Species	Dose	Exposure	Remarks
octane-1,2-diol	Negative	Negative	-	Rat - Male, Female	Oral: 1000 mg/kg NOEL	45 days; 7 days per week	OECD 421 test substance: CAS # 584-03-2. (Read across)
didecyldimethylammonium chloride	Negative	Negative	Negative	Rat - Male, Female	Oral: 109 mg/kg NOEL	-	OECD 416

Teratogenicity:
Not classified based on available information.

Product/ ingredient name	Result	Species	Dose	Exposure	Remarks
octane-1,2-diol	Negative - Oral [OECD 414]	Rat - Female	300 mg/kg NOEL	15 days; 7 days per week	test substance: CAS #584-03-2. (Read across)
didecyldimethylammonium chloride	Negative - Oral [OECD 414]	Rabbit - Female	12 mg/kg NOAEL	24 days; 7 days per week	-

STOT - Single Exposure:
No information available.

STOT - Repeated Exposure:
No information available.

Repeated Dose Toxicity:
Not classified based on available information.

Aspiration Toxicity:
Not classified based on available information.

Information on the likely routes of exposure: Not available.

Potential acute health effects

Eye contact:	Causes serious eye irritation.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	Causes skin irritation.
Ingestion:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	Adverse symptoms may include the following: Pain or irritation, watering, redness.
Inhalation:	No specific data.
Skin contact:	Adverse symptoms may include the following: irritation, redness
Ingestion:	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects:	Not available.
Potential delayed effects:	Not available.

Long term exposure

Potential immediate effects:	Not available.
Potential delayed effects:	Not available.

Potential chronic health effects:
Not classified based on available information.

Product/ ingredient name	Result	Species	Dose	Exposure	Remarks
octane-1,2-diol	Sub-acute NOAEL Oral [OECD 407]	Rat - Male, Female	300 mg/kg	28 days; 7 days per week	-
didecyldimethyl ammonium chloride	Sub-chronic NOAEL Oral [OECD 408]	Rat - Male, Female	45.5 mg/kg	93 days; 7 days per week	-
	Chronic LOAEL Oral [OECD 435]	Rat - Male, Female	31 mg/kg	52 days; 7 days per week	

General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Other information: Not available.

SECTION 12: Ecological Information

12.1 Toxicity

Not classified based on available information.

Product/ ingredient name	Result	Species	Exposure	Remarks
octane-1,2-diol	Acute EC50 46 mg/l Fresh water [OECD 201]	Algae - Pseudokirchneriella subcapitata	72 hours	-
	Acute EC50 176 mg/l Fresh water [OECD 202]	Daphnia - Daphnia magna	48 hours	-
	Acute EC50 4850 to 34000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours	-
	Acute EC50 26000 mg/l	Micro-organism	16 hours	-
	Acute LC50 142 mg/l	Algae	72 hours	-
	Acute LC50 10 to 100 mg/l Fresh water	Fish - Brachydanio rerio	96 hours	-
	Acute LC50 44000 to 51600 mg/l	Fish - Oncorhynchus mykiss	96 hours	-

didecyldimethylammonium chloride	EC10 5.95 mg/l Fresh water [OECD 209]	Micro-organism	3 hours	-
	Acute EC50 0.062 mg/l Fresh water [OECD 201]	Algae - Pseudokirchneriella subcapitata	72 hours	-
	Acute EC50 0.029 mg/l Fresh water [OECD 202]	Daphnia - Daphnia magna	48 hours	-
	Acute LC50 0.49 mg/l Fresh water [OECD 203]	Fish - Danio rerio	96 hours	-
	Chronic EC10 0.02 mg/l Fresh water [OECD 201]	Algae - Pseudokirchneriella subcapitata	72 hours	-
	Chronic NOEC 0.021 mg/l Fresh water [OECD 211]	Daphnia - Daphnia magna	21 days	-

12.2 Persistence and Degradability
No information available on the mixture.

Product/ ingredient name	Result	Test	Dose	Inoculum
octane-1,2-diol	81% - Readily - 28 days	OECD 301F	-	-
	75% - Readily - 28 days	OECD 301D	-	-
didecyldimethylammonium chloride	69% - Readily - 28 days	OECD 301D	4 mg/l	8 L Fresh water

Product/ ingredient name	Aquatic half-life	Photolysis	Biodegradability
octane-1,2-diol	-	-	Readily
didecyldimethylammonium chloride	-	-	Readily

12.3 Bioaccumulation Potential

Product/ ingredient name	$LogP_{ow}$	BCF	Potential
octane-1,2-diol	1.32	-	low
didecyldimethylammonium chloride	-	2.1	Low

12.4 Mobility in Soil

Soil/water partition coefficient (K_{oc}): Not available
Mobility: Not available

12.5 Other Adverse Effects

PBT: Not applicable.
vPvB: Not applicable.

Other: No known significant effects or critical hazards.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Disposal of Wastes:
The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated Packaging:

Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transport Information

14.1 Transport Regulations

Name	Classification
U.S. DOT - ROAD	Not dangerous goods.
CFR_RAIL_C	Not dangerous goods.
U.S. DOT - INLAND WATERWAYS	Not dangerous goods.
TDG_ROAD_C	Not dangerous goods.
TDG_RAIL_C	Not dangerous goods.
TDG_INWT_C	Not dangerous goods.
INTERNATIONAL MARITIME DANGEROUS GOODS	Not dangerous goods.
INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO	Not dangerous goods.

Name	Classification
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER	Not dangerous goods.
mx_dg	Not dangerous goods.

SECTION 15: Regulatory Information

15.1 U.S. Federal Regulations

EPCRA - Emergency Planning and Community Right-to-Know Act
No information available.

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312
This material does not contain any components with a section 311/312 EHS TPQ.

SARA 302
This material does not contain any components with a section 302 EHS TPQ.

SARA 313
This material does not contain any components with a section 313 EHS TPQ.

15.2 U.S. State Regulations

Pennsylvania Right To Know
None known.

New Jersey Right To Know
None known.

California Prop 65
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

15.3 International Inventories

The components of this product are reported in the following inventories:

DSL	All components of this product are on the Canadian DSL
AICS	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TCSI	On the inventory, or in compliance with the inventory
TSCA	For Cosmetic Use Only

Inventories: AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA).

SECTION 16: Other Information

16.1 NFPA Rating

Health Hazards:	2
Flammability:	1
Instability:	0
Physical and Chemical Properties:	-

16.2 HMIS Rating

Health Hazards:	2
Flammability:	1
Physical Hazards:	0
Personal Protection:	-

16.3 NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB.

16.4 Full Text of H-Statements Referred to Under Sections 2 and 3

H302: Harmful if swallowed.
H314: Causes severe burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects

Notes:
This safety data sheet is based on the properties of the material known at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment holds no responsibility. This document is not intended for quality assurance purposes.