

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

- 1.1 Product Name:** Polysorbate 80
Product Code: 515-498X
- 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**
Not a hazardous substance or mixture.
- 2.2 Label Elements**
None.
- Hazard Statements**
NC Not a hazardous substance or mixture.
- Precautionary Statements**
NC Not a hazardous substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1 Components

Component Name	CAS #	Component %	OSHA PEL	ACGIH TLV
Polysorbate 80	9005-65-5	>97	N/A	N/A
Water	7732-18-5	<3	Not applicable	Not applicable
1,4-Dioxane	123-91-1	<0.01	25 ppm	20 ppm
Ethylene oxide	75-21-8	<0.001	1 ppm	1 ppm

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

- Contact With Eyes:** Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if present and easy to do so. Seek prompt medical attention if irritation persists.
- Skin Contact:** Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower. Seek prompt medical attention if irritation persists.
- Inhalation:** Seek prompt medical attention. Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
- Ingestion:** Do not induce vomiting. Vomiting should only be influenced by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person. Seek prompt medical attention if irritation persists.

4.2 Most Important Symptoms/Effects, Acute and Delayed

No information available.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed

No information available.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable: Alcohol resistant foam, water spray, carbon dioxide (CO₂), dry chemical powder.

Unsuitable: None specifically mentioned.

5.2 Special Fire Fighting Procedures

Self-contained breathing apparatus and protective clothing are required. Cool the intact fire-exposed containers with water spray and remove them.

5.3 Unusual Fire Fighting Hazards

Slight fire hazard.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

Isolate and signalize area. Keep heat and/or ignition sources away. Use personal protection equipment in order to avoid contact with spilled product.

6.2 Environmental Precautions

Prevent Product from entering soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.

6.3 Method for Cleaning Up

Stop if possible. Contain and dike spilled product with earth or sand. Eliminate ignition or heat sources. Transfer to proper container. Collect remnants with an appropriate absorbent material. Wash the contaminated surface with water, which should be collected for disposal.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Use in a well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If accidental contact occurs, exposed area should be washed immediately. Emergency eye wash stations and showers shall be located in accessible locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store in a covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the storage location has adequate moisture, pressure and temperature. Keep containers tightly closed when not in use.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Component Name	CAS #	OSHA PEL	ACGIH TLV
Polysorbate 80	9005-65-5	N/A	N/A
Water	7732-18-5	Not applicable	Not applicable
1,4-Dioxane	123-91-1	25 ppm	20 ppm
Ethylene oxide	75-21-8	1 ppm	1 ppm

Engineering Controls: In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhaust).

Monitoring: Information not available.

8.2 Personal Protective Equipment

Eye Protection: Side shields or wide vision safety goggles.

Skin Protection: Gloves made of: PCV (Polyvinyl chloride). PVC apron. It is recommended to adopt safety boots/shoes.

Respiratory Protection: In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self container breathing apparatus. It is recommended to wear face mask with organic vapors cartridge in case of exposure to vapors/aerosols.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance:	Yellowish-amber viscous liquid
Odor:	No data available
pH @ 25°C:	6 - 7
Melting/Freezing Point:	< 0°C
Flashpoint:	> 149°C
Specific Gravity:	No data available
Solubility:	Soluble in water
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
VOC Content:	No data available
Odor Threshold:	No data available
Boiling Range:	> 100°C
Evaporation Point:	No data available
Flammable Limits - Upper:	No data available
Flammable Limits - Lower:	No data available
Vapor Pressure:	< 16 mmHG @ 25°C
Vapor Density (Air=1):	45
Viscosity:	300-500 cSt

SECTION 10: Stability and Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable under ordinary conditions of use and storage.
10.3 Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
10.4 Conditions to Avoid	High temperatures, ignition sources and prolonged exposure to the air.
10.5 Incompatible Materials	No data available.
10.6 Hazardous Decomposition Products	In case of combustion it may generate carbon monoxide, besides CO ₂ .

SECTION 11: Toxicological Information

11.1 Toxicity Information

Likely Route of Exposure: Skin contact, ingestion, eye contact, inhalation.
Inhalation: No data available.
Eye Contact: No data available.
Skin Contact: Causes mild skin irritation.
Ingestion: No data available.
Acute Toxicity Value: Oral LD50 = 34500 µL/kg
Chronic (Long Term) Effects: No data available.

Toxicity:

Component Name	LD50	LC50
Polysorbate 80	Oral LD50, rat: 34500 µL/kg LD50, mouse: 25000 mg/kg	No data available
Water	Oral (rat): 90000 mg/kg	No data available
1,4-Dioxane	Oral, rat: 4200 mg/kg Dermal, Rabbit: 7858 mg/kg	Inhalation, Rat, 2h: 46000 mg/m ³
Ethylene oxide	Oral, rat: >5000 mg/kg Dermal, rabbit: >5000 mg/kg	Not established

Reproductive Effects: No data available.
Teratogenicity: No data available.
Mutagenicity: No data available.
Embryotoxicity: No data available.
Sensitization: No data available.
Synergistic Products: No data available.
Carcinogenicity: No data available.

SECTION 12: Ecological Information

12.1 Ecotoxicity

No data available.

12.2 Persistence and Degradability

No data available.

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

No data available.

SECTION 13: Disposal Considerations

13.1 Disposal Methods

The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies. The preferred options for disposal include reuse, recycling, co-processing, byproduct use or incineration at licensed facilities.

SECTION 14: Transport Information

14.1 DOT Shipping Information

Proper Shipping Name:	Polysorbate 80
Contains:	Not classified
Hazard Class and Label:	Not classified
Identification Number:	Not classified
Packaging Group:	Not classified
Other Shipping Info:	Not regulated

SECTION 15: Regulatory Information

15.1 U.S. Federal Regulations

TSCA Status:

The components of this product are listed on the TSCA Inventory.

SARA Title III Section 302/304 Extremely Hazardous Substance:

Component Name	CAS #	% by wt.	RQ (lbs.)	TPQ (lbs.)
Ethylene oxide	75-21-8	<0.001	N/A	1,000

SARA Title III Section 311/312 Hazard Categorization:

Acute	Chronic	Fire	Pressure	Reactive
N/A	N/A	N/A	N/A	N/A

SARA Title III Section 313 Supplier Information:

Component Name	CAS #	% by wt.
1,4-Dioxane	123-91-1	<0.01
Ethylene oxide	75-21-8	<0.001

CERCLA Section 102(a) Hazardous Substance:

Component Name	CAS #	% by wt.	RQ (lbs.)
1,4-Dioxane	123-91-1	<0.01	100
Ethylene oxide	75-21-8	<0.001	10

15.2 U.S. State Regulations**California Proposition 65:**

1,4-Dioxane (123-91-1): This product does contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Ethylene oxide (75-21-8): This product does contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16: Other Information**16.1 HMIS Rating**

Health	Flammability	Reactivity
0	1	0

16.2 Additional Information

International Inventories: TSCA Complies, DSL Complies, NDSL Does not Comply, EINECS/ELINCS Does not Comply, ENCS Complies, IESCS Complies, KECL Complies, PICCS Complies, AICS Complies, NZIOC Complies, U.S. State Right-to-Know Regulations: Hydrogen peroxide (CAS# 7722-84-1), 1,4 Dioxane (CAS# 123-91-1), Ethylene oxide (CAS# 75-21-8) New Jersey, Massachusetts, Pennsylvania.

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.