

Material Safety Data Sheet

Effective Date: 19-MAR-2001  
Product: SAPONYN

I. IDENTIFICATION

Chemical Name: Yucca Extract  
Chemical Family: Surfactants  
Formula: Formulated Mixture  
Synonyms: Foaming Agent  
CAS Number: 90147-57-2  
EPA Number: None Required

II. PHYSICAL DATA

Boiling Point: 105 Degrees C.  
Freezing Point: Not available  
Spec Gravity: 1.28 g/cm3  
Vapor Pressure: Not available  
Vapor Density: Not available  
Solubility: 100% in water  
Volatiles: Not available  
Evaporation: Not determined  
Melting Point: Not available  
Appearance: Brown liquid with slight, sweet odor

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Saponin extracted from Yucca schidigera	90147-57-2	20.00	Not Determined	Eye irritant
Inert ingredients from Plant Extract		80.00	Not Determined	

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Not applicable  
Autoignition Temp: Not applicable  
Flammable Limit: Not determined  
Extinguishing Media: Water, Dry Chemical, Foam  
Special Fire Fight Proc: Wear self-contained breathing apparatus and avoid breathing fumes.  
Fire and Expl Hazard: None Noted.

Material Safety Data Sheet

Effective Date: 19-MAR-2001  
Product: SAPONYN

-----  
-----  
V. HEALTH HAZARD  
-----

Carcinogen Information: None currently known.

ACUTE EFFECTS OF OVER EXPOSURE  
-----

Swallowing: Ingestion may result in abdominal cramps or vomiting. Virtually non-toxic by ingestion.  
Skin Absorption: None currently known.  
Inhalation: None currently known.  
Skin contact: Continual overexposure to concentrated product may cause mild skin rash and itching.  
Eye Contact: Eye contact with concentrated product can cause reddening and irritation.  
Chronic Effects: None currently known.  
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES  
-----

Swallowing: If swallowed, dilute by giving water to drink. Do not induce vomiting. Consult a physician immediately.  
Skin: Wash skin thoroughly with soap and water. If irritation develops, consult a physician.  
Inhalation: Move to fresh air if irritation is noted.  
Eyes: Flush eyes with water for 15 minutes, holding eyelids open. If irritation develops or persists, consult a physician.  
Notes to Physician: In the event of an adverse response, treatment should be directed toward control of the symptoms.

-----  
VI. REACTIVITY  
-----

Stability: Stable  
Conditions to Avoid: None currently known.  
Polymerization: Will Not Occur  
Conditions to Avoid: None currently known.  
Incompatibility material: Avoid contact with strong acids.  
Hazardous Combustion: May produce carbon dioxide and/or carbon monoxide under fire conditions.

Material Safety Data Sheet

Effective Date: 19-MAR-2001  
Product: SAPONYN

-----  
-----  
VI. SPILL OR LEAK PROCEDURES  
-----

Spill or Leak Proc: Dike and absorb spill with an absorbent such as clay, sand, or sawdust. Transfer to suitable containers for proper disposal. Flush spill area with water, absorb, and place in same containers with other materials.

Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

-----  
VIII. SPECIAL PROTECTION INFORMATION  
-----

Respiration: None needed under normal conditions.  
Ventilation: Local exhaust sufficient.  
Gloves: Impervious  
Eyes: Face shield  
Other: Eyewash station, impervious apron and footwear.

-----  
IX. SPECIAL PRECAUTIONS  
-----

Special precaution: Product is a high foaming agent. Avoid vigorous mixing with air when diluted in water. Use of an anti-foaming agent will reduce foaming problems.

Other precaution: None.

-----  
X. SHIPPING INFORMATION  
-----

Shipping name: Not Regulated by DOT  
Hazard Class: None  
Identification No: None Required  
Labels Required: None Required  
Placarding: None Required  
Freight Class: Adhesives, Adjuvants, Spreaders or Stickers, Liquid, NOIBN

Chemical Name	Equivalent R.Q.
----- Not applicable	----- Not applicable

Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

19-MAR-2001 10:38:48  
Page 4 Of 4

Material Safety Data Sheet

Effective Date: 19-MAR-2001  
Product: SAPONYN

---

XI. GENERAL PRODUCT INFORMATION

---

National Fire Protection Association Rating:  
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1                      Fire: 1                      Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y                      Delayed (Chronic) Health: N  
Sudden Release of pressure: N                      Fire: N  
Reactive: N

---

Helena Chemical Company believes that the data contained herein is factual. This data is not to be taken as a warranty or representation of legal responsibility. It is offered solely for your consideration, investigation and verification.