

Material Safety Data Sheet

Effective Date: 23-JAN-2000
Product: SILWET L-77 SURFACTANT

I. IDENTIFICATION

Chemical Name: ORGANOSILICONE SURFACTANTS
Chemical Family: SILICONE-POLYETHER COPOLYMER
Formula: NOT APPLICABLE, FORMULATED MIXTURE.
Synonyms: NONE
CAS Number: 27306-78-1
EPA Number: CAL. REG. NO. 5905-50073-AA

II. PHYSICAL DATA

Boiling Point: >150 DEGREES C.
Freezing Point: 30 DEGREES F.
Spec Gravity: 1.007 GMS/CC.
Vapor Pressure: <1 MM HG
Vapor Density: >1
Solubility: DISPERSIBLE
Volatiles: NOT DETERMINED
Evaporation: <1
Melting Point: NOT APPLICABLE
Appearance: STRAW COLORED LIQUID, POLYETHER ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF POLYALKYLENEOXIDE MODIFIED HEPTA-METHYLTRISILOXANE AND ALLYLOXY-POLYETHYLENE GLYCOL METHYL ETHER		100.00	NOT ESTABLISHED	MODERATELY TOXIC, SEVERE EYE AND MILD SKIN IRRITANT

IV. FIRE AND EXPLOSION HAZARD

Flash Point: 240 DEGREES F. (PMCC)
Autoignition Temp: NOT DETERMINED
Flammable Limit: NOT DETERMINED
Extinguishing Media: USE ALCOHOL-TYPE OR UNIVERSAL-TYPE FOAMS FOR
LARGE FIRES. USE CARBON DIOXIDE OR DRY CHEMICAL
FOR SMALL FIRES.
Special Fire Fight Proc: WEAR A (POSITIVE PRESSURE) SELF-CONTAINED
BREATHING APPARATUS WHEN FIGHTING FIRES IN AN
ENCLOSED AREA.
Fire and Expl Hazard: DON'T SPRAY A SOLID STREAM OF WATER OR FOAM
DIRECTLY INTO A POOL OF HOT, BURNING LIQUID.

Material Safety Data Sheet

Effective Date: 23-JAN-2000
Product: SILWET L-77 SURFACTANT

THIS MAY CAUSE FROTHING AND INCREASE FIRE
INTENSITY.

V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: MODERATELY TOXIC. MAY CAUSE IRRITATION OF THE MOUTH AND THROAT, ABDOMINAL DISCOMFORT, NAUSEA, VOMITING, AND DIARRHEA.

Skin Absorption: PROLONGED OR WIDESPREAD SKIN CONTACT MAY RESULT IN THE ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS OF MATERIAL.

Inhalation: SHORT-TERM ADVERSE HEALTH EFFECTS ARE NOT EXPECTED FROM EXPOSURE TO VAPOR GENERATED AT AMBIENT TEMPERATURE.

Skin contact: PROLONGED CONTACT MAY CAUSE LOCAL ITCHING OR DISCOMFORT, WITH REDNESS AND POSSIBLY SLIGHT SWELLING.

Eye Contact: LIQUID SPLASHED IN EYES WILL CAUSE MINOR CORNEAL INJURY, IRITIS, AND MODERATE TO SEVERE CONJUNCTIVAL IRRITATION.

Chronic Effects: REPEATED INGESTION MAY CAUSE LIVER AND THYROID INJURY. REPEATED INGESTION MAY CAUSE INJURY TO THE MALE AND FEMALE REPRODUCTIVE SYSTEMS.

Other Hazard: SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS. PROLONGED EXPOSURE TO VAPOR OR AEROSOL MAY CAUSE DISCOMFORT IN THE EYES WITH EXCESS REDNESS AND SWELLING OF THE CONJUNCTIVAL.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: IF PATIENT IS FULLY CONSCIOUS, GIVE TWO GLASSES OF WATER. INDUCE VOMITING. OBTAIN MEDICAL ATTENTION.

Skin: WASH SKIN WITH SOAP AND WATER. IF IRRITATION PERSISTS OR IF CONTACT HAS BEEN PROLONGED, OBTAIN MEDICAL ATTENTION.

Inhalation: MOVE PERSON TO FRESH AIR. CONSULT A PHYSICIAN IF IRRITATION DEVELOPS.

Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

Notes to Physician: THERE IS NO SPECIFIC ANTIDOTE. TREATMENT OF OVER EXPOSURE SHOULD BE DIRECTED AT THE

Material Safety Data Sheet

Effective Date: 23-JAN-2000
Product: SILWET L-77 SURFACTANT

CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT. MODERATE TO SEVERE EYE IRRITANT. LIQUID SPLASHED INTO THE EYES WILL CAUSE MODERATE TO SEVERE DISCOMFORT AND PAIN, WITH EXCESS BLINKING AND TEAR PRODUCTION. THERE WILL BE EXCESS REDNESS AND SWELLING OF THE CONJUNCTIVAL, MINOR CORNEAL INJURY, IRITIS, AND MODERATE TO SEVERE CONJUNCTIVAL IRRITATION. THESE EFFECTS SHOULD RESOLVE WITHIN 7 TO 14 DAYS.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: NONE CURRENTLY KNOWN
Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: NONE CURRENTLY KNOWN.
Hazardous Combustion: MAY PRODUCE OXIDES OF CARBON AND OXIDES OF SILICON UNDER FIRE CONDITIONS.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: CLEAN UP SPILLS WITH AN OIL ABSORBENT MATERIAL, SUCH AS CLAY, SAND, OR SAWDUST. SPILL AREA WILL BE QUITE SLIPPERY. PLACE CONTAMINATED MATERIAL IN RECOVERY/SALVAGE DRUMS FOR PROPER DISPOSAL.
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: USE ONLY NIOSH-CERTIFIED RESPIRATORY PROTECTION. RESPIRATORY PROTECTION NOT NEEDED UNLESS PRODUCT IS HEATED OR MISTED.
Ventilation: GENERAL (MECHANICAL) ROOM VENTILATION IS EXPECTED TO BE SATISFACTORY.
Gloves: IMPERVIOUS
Eyes: MONOGOGGLES
Other: EYE WASH STATION, EMERGENCY SHOWER, IMPERVIOUS FOOTWEAR AND APRON.

IX. SPECIAL PRECAUTIONS

Material Safety Data Sheet

Effective Date: 23-JAN-2000
Product: SILWET L-77 SURFACTANT

Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED OR CONSUMED BY HUMANS OR ANIMALS. DO NOT CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR PONDS. PRODUCT HIGHLY TOXIC TO FISH. TO PROMOTE SAFE HANDLING, HELENA CHEMICAL COMPANY URGES EACH CUSTOMER OR RECIPIENT OF THIS MSDS TO STUDY IT CAREFULLY TO BECOME AWARE OF AND UNDERSTAND THE HAZARDS ASSOCIATED WITH THIS PRODUCT.

Other precaution: A) RCRA HAZARDOUS WASTE NUMBER: NOT LISTED
B) SARA TITLE III, SECTION 313: <01.50%, GLYCOL ETHERS
C) SARA THRESHOLD PLANNING QUANTITY: NOT LISTED
D) CERCLA REPORTABLE QUANTITY: NOT LISTED
E) CALIFORNIA PROPOSITION 65: <1000 PPM, TOLUENE
F) TITLE III, CLEAN AIR ACT: YES, GLYCOL ETHERS

X. SHIPPING INFORMATION

Shipping name: NOT REGULATED BY DOT, IATA, OR IMDG.
Hazard Class: NONE
Identification No: NONE
Labels Required: NONE
Placarding: NONE
Freight Class: ADJUVANT, SPREADER OR STICKER, LIQUID, NOIBN

Chemical Name	Equivalent R.Q.
-----	-----
NOT APPLICABLE	NOT APPLICABLE

XI. GENERAL PRODUCT INFORMATION

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

Health: 2 Fire: 1 Reactivity: 0

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

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

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

12-JAN-2003 14:50:16
Page 5 Of 5

Material Safety Data Sheet

Effective Date: 23-JAN-2000

Product: SILWET L-77 SURFACTANT

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
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.