

SURFIX

Helena Chemical Company
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CHEMTREC: 1-800-424-9300
Effective Date: 02-15-00
Product: SURFIX

I. IDENTIFICATION

Chemical Name: MIXTURE OF SURFACTANTS
Chemical Family: SURFACTANTS
Formula: NOT APPLICABLE
Synonyms: NONE
CAS Number: FORMULATED MIXTURE
EPA Number: CAL. REG. NO. 5905-50063-AA

II. PHYSICAL DATA

Boiling Point: NO DATA AVAILABLE
Freezing Point: <40 DEGREES F.
Spec Gravity: .980 GMS/CC
Vapor Pressure: LESS THAN 1
Vapor Density: NO DATA AVAILABLE
Solubility: DISPERSIBLE
Volatiles: NOT APPLICABLE
Evaporation: NOT APPLICABLE
Melting Point: NO DATA AVAILABLE
Appearance: LIGHT AMBER LIQUID, SOLVENT ODOR

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF MODIFIED PHTHALIC GLYCEROL ALKYL RESIN, FATTY ACIDS AND INERTS		100.00	NOT ESTABLISHED	EYE IRRITANT AND MILD SKIN IRRITANT

NOTE: THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF RESIDUAL ETHYLENE OXIDE. SEE OTHER PRECAUTIONS, SECTION IX

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >200 DEGREES F.
Autoignition Temp: NO DATA AVAILABLE
Flammable Limit: NOT APPLICABLE
Extinguishing Media: WATER FOG, FOAM, ALCOHOL FOAM, DRY CHEMICAL AND CARBON DIOXIDE.
Special Fire Fight Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND AVOID BREATHING FUMES. USE WATER SPRAY TO COOL CONTAINERS EXPOSED TO HEAT AND FLAME.
Fire and Expl Hazard: CARBON DIOXIDE AND CARBON MONOXIDE UNDER FIRE CONDITIONS.

V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.
ACUTE EFFECTS OF OVER EXPOSURE
Swallowing: LOW TOXICITY EXPECTED.
Skin Absorption: LOW TOXICITY EXPECTED.
Inhalation: LOW TOXICITY BY INHALATION. AVOID BREATHING SPRAY MIST.
Skin contact: PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION, DEFATTING OR DERMATITIS.
Eye Contact: WILL CAUSE EYE IRRITATION.
Chronic Effects: NONE CURRENTLY KNOWN.
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: DILUTE BY GIVING LARGE AMOUNTS OF WATER TO DRINK. CONSULT A PHYSICIAN.
Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPS. CONSULT A PHYSICIAN.
Inhalation: MOVE TO FRESH AIR IF IRRITATION DEVELOPS. CONSULT A PHYSICIAN.
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. IF IRRITATION DEVELOPS, 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 OXIDIZERS SUCH AS HYDROGEN PEROXIDE, BROMINE, AND CHROMIC ACID.
Hazardous Combustion: CARBON DIOXIDE AND CARBON MONOXIDE UNDER FIRE CONDITIONS.

VII. 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 MATERIAL.
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 NORMALLY NEEDED. IF SPRAY IS PRESENT, USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION.
Ventilation: LOCAL EXHAUST SUFFICIENT
Gloves: IMPERVIOUS
Eyes: CHEMICAL WORKERS GOGGLES.
Other: EYE WASH STATION, IMPERVIOUS APRON AND FOOTWEAR.

IX. SPECIAL PRECAUTIONS

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. KEEP CONTAINERS TIGHTLY CLOSED. KEEP AWAY FROM HEAT, SPARKS OR FLAMES. DO NOT STORE WITH OXIDIZING MATERIALS OR AMMONIA NITRATE.
Other precaution: *ETHYLENE OXIDE MAY ACCUMULATE IN THE HEAD SPACE OF DRUM AND BULK CONTAINERS. HOWEVER, THE CONCENTRATION OF ETHYLENE OXIDE IN THE HEAD SPACE SHOULD NOT CAUSE THE OSHA 0.5 PPM ACTION LEVEL FOR ETHYLENE OXIDE EXPOSURE TO BE EXCEEDED. IF THE PRODUCT IS HANDLED AS RECOMMENDED IN THIS MSDS, THE TRACE AMOUNTS OF ETHYLENE OXIDE ARE NOT EXPECTED TO RESULT IN ACUTE AND CHRONIC HAZARDS.

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.
NA	NA

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

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