

Material Safety Data Sheet

Effective Date: 01-MAR-2001
Product: OPTIMA

I. IDENTIFICATION

Chemical Name: COMBINATION OF SURFACTANTS
Chemical Family: SURFACTANTS
Formula: NOT APPLICABLE, FORMULATED MIXTURE.
Synonyms: NONE
CAS Number: NOT APPLICABLE, FORMULATED MIXTURE.
EPA Number: CAL. REG. NO. 5905-50075-AA

II. PHYSICAL DATA

Boiling Point: >200 DEGREES F.
Freezing Point: <35 DEGREES F.
Spec Gravity: 1.061 GMS/CC
Vapor Pressure: NOT DETERMINED
Vapor Density: NOT DETERMINED
Solubility: 100%
Volatiles: <1%
Evaporation: NOT DETERMINED
Melting Point: NOT DETERMINED
Appearance: DARK AMBER LIQUID, LOW ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF POLYETHOXYLATED ALKYLAMINES (C8-C18), ALKYL POLYOXYETHYLENE GLYCOLS, AND ORGANIC ACIDS		100.00	10 MG/M3	SEVERE EYE AND MILD SKIN IRRITANT

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >200 DEGREES F.
Autoignition Temp: NOT DETERMINED
Flammable Limit: NOT DETERMINED
Extinguishing Media: ALCOHOL FOAM, DRY CHEMICAL AND CARBON DIOXIDE.
Special Fire Fight Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND
AVOID BREATHING FUMES. WATER SPRAY MAY BE
INEFFECTIVE.
Fire and Expl Hazard: NONE CURRENTLY KNOWN.

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V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: THE ACUTE ORAL TOXICITY LD50 (RATS) = 1,550
MG/KG, SLIGHTLY TOXIC. EPA CATEGORY III.
Skin Absorption: THE DERMAL LD50 IS INCOMPLETE AT THIS TIME.
Inhalation: THERE IS NO LC50 FOR THIS MATERIAL SINCE NO
FATALITIES OCCURRED AT THE HIGHEST ATMOSPHERIC
CONCENTRATION ACHIEVABLE IN THIS STUDY.
Skin contact: SLIGHTLY IRRITATING TO THE EXPOSED SKIN.
PRODUCT CLASSED AS A SKIN SENSITIZER.
Eye Contact: DIRECT CONTACT WITH PRODUCT MAY CAUSE SEVERE
EYE IRRITATION AND IRREVERSIBLE EYE DAMAGE. EPA
CATEGORY I.
Chronic Effects: NONE CURRENTLY KNOWN.
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: GIVE A LARGE AMOUNT OF WATER TO DRINK AND
INDUCE VOMITING. IMMEDIATELY CALL A PHYSICIAN.
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY
MOUTH TO AN UNCONSCIOUS PERSON.
Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF
IRRITATION DEVELOPS, CONSULT A PHYSICIAN.
Inhalation: MOVE TO FRESH AIR IF IRRITATION IS NOTED.
CONSULT A PHYSICIAN IF IRRITATION PERSISTS.
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING
EYELIDS OPEN. IF IRRITATION DEVELOPS, CONSULT A
PHYSICIAN.
Notes to Physician: THERE IS NO SPECIFIC ANTIDOTE FOR THIS
PRODUCT. TREATMENT SHOULD BE DIRECTED TOWARD
CONTROL OF THE SYMPTOMS AND THE CLINICAL
CONDITION OF THE PATIENT.

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.

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Hazardous Combustion: MAY PRODUCE OXIDES OF CARBON UNDER FIRE
CONDITIONS.

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 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: 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. PREVENT SKIN AND EYE CONTACT. WORKERS
SHOULD SHOWER AND CHANGE TO FRESH CLOTHING, IF
CLOTHING BECOMES CONTAMINATED. A SENSITIZED
INDIVIDUAL SHOULD NOT BE EXPOSED TO THE PRODUCT
WHICH CAUSED THE SENSITIZATION.

Other precaution: THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL
SUBJECT TO THE REPORTING REQUIREMENTS OF
SECTION 313 OF TITLE III OF THE SUPERFUND
AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND
40 CFR PART 372.

ALL INGREDIENTS IN THIS PRODUCT ARE ACCEPTED
FOR USE UNDER 40 CFR, PART 180.1001(C)(D).

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X. SHIPPING INFORMATION

Shipping name: NOT REGULATED BY DOT, IATA (AIR), OR IMDG
(WATER).

Hazard Class: NONE
Identification No: NONE
Labels Required: NONE REQUIRED
Placarding: NONE REQUIRED

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: N
Sudden Release of pressure: N Fire: N
Reactive: N

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