

Material Safety Data Sheet

Effective Date: 27-JUL-2000
Product: BLENDEX VHC

I. IDENTIFICATION

Chemical Name: MIXTURE OF SURFACTANTS
Chemical Family: SURFACTANT/COMPATABILITY AGENT
Formula: NOT APPLICABLE
Synonyms: NONE
CAS Number: SEE OTHER PRECAUTIONS, SECTION IX.
EPA Number: NOT REQUIRED

II. PHYSICAL DATA

Boiling Point: NOT DATA AVAILABLE
Freezing Point: <40 DEGREES F.
Spec Gravity: 1.121 GMS/CC
Vapor Pressure: NO DATA AVAILABLE
Vapor Density: NO DATA AVAILABLE
Solubility: 100% @ 25 DEGREES C.
Volatiles: NOT APPLICABLE
Evaporation: NOT APPLICABLE
Melting Point: NO DATA AVAILABLE
Appearance: CLEAR AMBER LIQUID WITH SURFACTANT ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
ALKYL ARYL POLYETHOXY ETHANOL, PHOSPHATE ESTERS AND OTHER ETHOXYLATED DERIVATIVES		90.00	NOT ESTABLI SHED	MODERATE EYE IRRITANT
COMPONENTS INEFFECTIVE AS A SPRAY ADJUVANT		10.00	NOT ESTABLI SHED	NOT AVAILABLE

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >200 DEGREES F
Autoignition Temp: NO DATA AVAILABLE
Flammable Limit: NOT APPLICABLE
Extinguishing Media: DRY CHEMICAL, WATERSPRAY, WATERFOG, CARBON
DIOXIDE, FOAM, SAND OR EARTH,
Special Fire Fight Proc: FIREFIGHTERS MUST BE EQUIPPED TO PREVENT
BREATHING OF VAPORS OR PRODUCTS OF COMBUSTION.
WEAR AN APPROVED SELF-CONTAINED BREATHING
APPARATUS AND PROTECTIVE CLOTHING.
Fire and Expl Hazard: COMBUSTIBLE LIQUID, CONTAINERS MAY EXPLODE IN

Material Safety Data Sheet

Effective Date: 27-JUL-2000
Product: BLENDEX VHC

HEAT OF FIRE. PRODUCT MAY PRODUCE TOXIC AND IRRITATING FUMES AND VAPORS UNDER FIRE CONDITIONS. USE WATER SPRAY TO COOL EXPOSED CONTAINERS.

V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: MODERATELY TOXIC. MAY CAUSE HEADACHE, DIZZINESS, INCOORDINATION, NAUSEA, VOMITING, DIARRHEA, AND GENERAL WEAKNESS.
Skin Absorption: PENETRATES SKIN READILY. FREQUENT OR WIDESPREAD CONTACT MAY RESULT IN THE ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS.
Inhalation: HIGH CONCENTRATIONS ARE IRRITATING TO THE EYES AND RESPIRATORY TRACT.
Skin contact: MAY CAUSE SKIN IRRITATION WITH PROLONGED CONTACT.
Eye Contact: MAY CAUSE MODERATE IRRITATION AND POSSIBLE CORNEAL INJURY.
Chronic Effects: REPEATED OVEREXPOSURE MAY CAUSE HEMOLYSIS OF RED BLOOD CELLS LEADING TO POSSIBLE LIVER AND KIDNEY DAMAGE.
Other Hazard: NONE CURRENTLY KNOWN

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: DO NOT INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN.
Inhalation: MOVE VICTIM TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, GIVE OXYGEN AND CALL A PHYSICIAN.
Eyes: IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES AND CALL 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: EXCESSIVE HEAT AND OPEN FLAMES.

Material Safety Data Sheet

Effective Date: 27-JUL-2000
Product: BLENDEX VHC

Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: STRONG OXIDIZERS SUCH AS HYDROGEN PEROXIDE,
BROMINE, AND CHROMIC ACID.
Hazardous Combustion: CARBON MONOXIDE, CARBON DIOXIDE AND OXIDES OF
PHOSPHOROUS FROM BURNING.

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: USE NIOSH/OSHA APPROVED RESPIRATOR WITH ORGANIC
VAPOR CARTRIDGE IF VAPOR CONCENTRATION EXCEEDS
PERMISSIBLE TLV.
Ventilation: MECHANICAL
Gloves: IMPERVIOUS GLOVES.
Eyes: CHEMICAL SAFETY 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. STORE BETWEEN 40 DEGREES F. AND 120
DEGREES F. DO NOT STORE WITH OXIDIZING
MATERIALS.
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. ETHYLENE OXIDE IS LISTED AS A
POTENTIAL CARCINOGEN BY OSHA, NTP, IARC AND
CALIFORNIA PROP 65. THE TRACE AMOUNTS OF

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

24-MAY-2002 15:20:25
Page 4 Of 4

Material Safety Data Sheet

Effective Date: 27-JUL-2000
Product: BLENDEX VHC

ETHYLENE OXIDE ARE NOT EXPECTED TO RESULT IN
ACUTE OR CHRONIC HAZARDS.

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS
SUBJECT TO THE REPORTING REQUIREMENTS OF
SECTION 313 OF TITLE III OF THE SUPERFUND
AMENDMENTS AND REAUTHORIZATION ACT OF 1986:
PHOSPHORIC ACID, CAS #7664-38-2, 02.00-04.00%
BY WT.
DIETHYLENE GLYCOL MONOBUTYL ETHER, CAS #112-34-
5, 14.00% BY WT.

X. SHIPPING INFORMATION

Shipping name: NOT REGULATED BY DOT, IATA, OR IMCO.
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: 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: Y
Reactive: N

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.