

MATERIAL SAFETY DATA SHEET

#1 NETWORK

UV BLANKET WASH

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Optima LLC Phone Number: 1-800-521-4042 Emergency Phone: 1-800-424-9300
Product Name: **UV BLANKET WASH** Product Number: **23852**
Prepared By: MSDS Author 3 Date Prepared: 09/22/2003

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS</u>	<u>OHSA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
2-BUTOXY ETHANOL	111-76-2	50 ppm TWA8	20 ppm TWA8	50-75
PROPYLENE GLYCOL	107-98-2	100 ppm	100 ppm	1-5
MONOMEHTYL ETHER				

3. HAZARDOUS IDENTIFICATION

Emergency Overview: WARNING! This product is combustible. Contains Petroleum Distillates! May be harmful or fatal if swallowed. May cause lung damage if swallowed.

POTENTIAL HEALTH EFFECTS

Eye Contact: May cause severe eye irritation. May cause moderate corneal damage. Effects may include discomfort or pain and redness.

Inhalation: Gas or vapor in high concentrations may irritate respiratory tract, euphoria, and excitation. Solvent Vapors are hazardous and may cause nausea, sickness, vomiting and headaches and CNS (central nervous system) effects. Vapors can reduce oxygen content in air.

Ingestion: Swallowing can cause gastrointestinal irritation and burning sensation in the mouth. Symptoms include nausea, vomiting, dizziness, and diarrhea. Aspiration of materials into the lungs can cause chemical pneumonitis and severe lung damage.

Skin Contact: May cause irritation, burning, and allergic skin reaction. Prolonged or repeated contact leads to drying of skin. This product can also be absorbed through the skin causing CNS depression effects.

Signs And Symptoms Of Exposure: Eye irritation, respiratory irritation, dermatitis, difficulty breathing, nausea, vomiting, headaches, skin irritation, mucus membrane irritation, or intoxication.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue flushing for at least 15 minutes. Get immediate medical attention, preferably from an ophthalmologist.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. Inhalation overexposure can produce toxic effects. Monitor for respiratory distress. Vigorous anti-inflammatory/steroid treatment may be required at first evidence of upper airway or pulmonary edema.

Ingestion: Do not induce vomiting. Seek medical attention immediately. If conscious, give 1 glass of water. If medical advice is delayed and if an adult has swallowed several ounces of chemical, then give 3-4 ounces of hard liquor such as 80 proof whiskey. This product contains material which present a significant aspiration/chemical pneumonitis hazard. Induction of emesis is not recommended.

Skin Contact: Wash skin with soap and water. Wash contaminated clothing before re-use. Get medical attention if irritation or allergic reaction develops.

Aggravated Medical Conditions: Personnel with pre-existing central nervous system disease (CNS), neurological conditions, skin disorders, liver or kidney function, or chronic respiratory diseases should avoid exposure.

Supplemental Health Information: None of the components in this product is listed by IARC, NTP, or OSHA as carcinogen.

5. FIRE FIGHTING MEASURES

Flash Point: >154°F

Flash Point Method: T.C.C.

Auto ignition: N.E.

LEL: 1.1

UEL: 10.6

Extinguishing Media: Alcohol resistant foam, dry chemicals, sand, dolomite, etc.

Special Fire -Fighting Procedures: Water spray may be ineffective on fire but may protect fire -fighters and cool closed containers. Use fog nozzles if water is used. Containers close to the fire should be removed or cooled with water. Do not get water inside container. Let small fires burn unless the leak can be stopped immediately and safely. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves and rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus.

Unusual Fire And Explosion Hazards: COMBUSTIBLE! Keep container tightly closed. Isolate from oxidizers, heat, and open flames. Closed containers may explode if exposed to extreme heat.

Combustion Products: Carbon dioxide and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Spilled Or Released: Review fire and explosion hazards and safety precautions before proceeding with cleanup. Use appropriate personal protective equipment. Avoid contact with skin and eyes. Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat, and smoking. Ventilate. Stop the spillage. Dike the spill. Prevent liquid from entering sewers, waterways or low areas. Absorb spillage in inert material. Soak up with sawdust, sand, or other absorbent material. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill. Discharge to sewer requires approval of permitting authority and may require pre-treatment. Contaminated surfaces should be cleaned using water.

7. HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Keep away from heat, sparks, and open flame. Static electricity and formation of sparks must be prevented. Keep in cool, dry, ventilated Class II liquid storage and closed containers. Protect from light, including direct sun rays. Ground container and transfer equipment to eliminate static electric sparks. Store isolated from oxidizing materials. Continue all label precautions.

Other Precautions: Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: A self-contained breathing apparatus is recommended when handling the concentrated product in high vapor concentrations.

Ventilation: Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits and to prevent vapors escaping into the workplace air.

Protective Gloves: Butyl gloves are recommended.

Eye Protection: Chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

Other Protective Clothing or Equipment: Rubber apron.

Work/Hygienic Practices: Use good personal hygiene when handling this product. Wash hands after use, before smoking or using the toilet.

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Guidelines: See Section 2. Ventilate to keep vapors of this material below exposure limits. If over, TLV,

in accordance with 29 CFR 1910.134, use NIOSH approved positive-pressure self-contained breathing apparatus.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Clear liquid with slight fruit berry odor.
Boiling Point: 300-365° F Vapor Pressure: N.E.
Melting Point: Not applicable Freezing Point: N.E.
Evaporation Rate: (n Butyl = 1) 0.08
Ph: Not applicable Molecular Weight: Not applicable
V.O.C. is 677.36 gm/L, or 73 %, or 5.6 lb/gal.

Solubility In Water: Complete
Specific Gravity: 0.93
Percent Volatile: 97.9
Vapor Density: (air =1) N.E.
Pounds Per Gallon: 7.77

10. STABILITY AND REACTIVITY

Stability: Stable at typical use temperatures.
Conditions To Avoid: Do not distill to dryness. Product can oxidize at elevated temperatures.
Incompatibility: Strong alkalis, strong oxidizing agents, and acids.
Hazardous Decomposition Or By Products: Carbon dioxide and carbon monoxide. Generation of gas during decomposition can cause pressure in closed systems.
Hazardous Polymerization: Will Not Occur
Conditions To Avoid: Avoid heat, flame, and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

Do not release this product into the environment. This product does not contain heavy metals or halogenated solvents.

13. DISPOSAL CONSIDERATIONS

Incinerate in a furnace where permitted under Federal, state, and local regulations. At very low concentrations in water, the glycol in this product is biodegradable in a biological wastewater treatment plant.

14. TRANSPORT INFORMATION

This material is regulated by the U.S. Department of Transportation (DOT) only when transported in bulk container shipments of greater than 119 gallon capacity. Reference 49.CFR 172.504(f) (2). However, pursuant to 49 CFR 173.150(b), "limited-quantities" offered for transport via aircraft may be subject to DOT regulation. Product is classified as an OSHA Class II Combustible Liquid.

For non-bulk shipments less than 119 gallons:

DOT Class: NOT REGULATED
Hazard Class: NOT APPLICABLE
UN No.: NOT APPLICABLE
Packing Group:
Guide No:

For Bulk shipments greater than 119 gallons:

DOT Shipping Name: COMBUSTIBLE LIQUID, N.O.S.
(Contains: Ethylene Glycol Monobutyl Ether)
Hazard Class: 3
UN No.: NA 1993
Packing Group: III
Guide No.: 128

15. REGULATORY INFORMATION

TSCA: All ingredients in this finished product are listed on the EPA TSCA INVENTORY.
SARA TITLE III: Glycol ethers are listed under Sara Title III Section 313.
CALIF. PROP. 65: This product contains a mixture including 1, 4 Dioxane (Cas# 123-91-1) and Ethylene Oxide (Cas# 75-21-8) at levels less than 0.1%. The following information is required by the State of California's Safe

Drinking Water and Toxic Enforcement Act of 1986, or Proposition 65. This regulation does not address de minimus levels; therefore, even trace amounts of the chemicals included on Proposition 65's list of chemicals known to the State of California to cause cancer or reproductive toxicity must be noted with the "Safe Harbor" wording. WARNING: This product contains 1, 4 Dioxane, and ethylene oxide known to cause birth defects or other reproductive harm.

CARCINOGENICITY: NONE OF THE COMPONENTS IN THIS CHEMICAL IS PRESENT ABOVE THE MINIMUM AMOUNT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

16. OTHER INFORMATION (HMIS)

Health: 2

Flammability: 2

Reactivity: 0

Protective: C

OTHER ADDITIONAL INFORMATION: The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injuries from the use of the product described herein.