

NETWORK CAL-1 NON-PHOTOCHEMICALLY REACTIVE WASH

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: **Photo Systems Inc.**

Photo Systems, Inc., 7200 Huron River Dr., Dexter, MI 48130

Product Number: **23904**

Customer Information Phone Number: 1-521-4042

CHEMTREC®: 24 Hour Emergency Transport Phone Number: 1-800-424-9300

Product Name: **CAL-1**

Date Prepared: 09/07/2007

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS</u>	<u>OHSA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
ALIPHATIC HYDROCARBON *	8052-41-3	100mg/m ³ V	100 mg/m ³	70-90
AROMATIC HYDROCARBON*	64742-95-6	N.E.	N.E.	5-10
DIPROPYLENE GLYCOL				
MONOMETHYL ETHER	34590-94-8	100 ppm	100 ppm	1-10
TERPENE HYDROCARBON	5989-27-5	N.E.		1-5

*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. CAL-1 WASH CONTAINS < 3 % 1, 2, 4-TRIMETHYLBENZENE Cas# 95-63-6, < 1 % XYLENE Cas # 1330-20-7 and < 1% CUMENE Cas # 98-82-8 by weight which are components of the PETROLEUM NAPHTHA mixture.

3. HAZARDOUS IDENTIFICATION

Emergency Overview: **WARNING! This product is COMBUSTIBLE**

POTENTIAL HEALTH EFFECTS

Eye Contact: May cause tearing, stinging, redness, irritation, and burns.

Inhalation: Irritating to respiratory tract. Prolonged or repeated breathing of very high vapor concentrations may cause euphoria, excitation, dizziness, headaches, nausea, and vomiting, abdominal pain, fatigue, muscular weakness. Chronic overexposure in high concentrations may produce CNS depression.

Ingestion: Irritation of the mouth, esophagus, and stomach can develop following ingestion.

Symptoms include burning of the mouth, sore throat, vomiting, nausea, dizziness, loss of consciousness. Due to its light viscosity, there is danger of aspiration into the lungs during vomiting.

Skin Contact: Prolonged or repeated skin contact may cause moderate irritation including itching and redness of the skin, and/or dermatitis.

Signs And Symptoms Of Exposure: Eye irritation, respiratory irritation, dizziness, fatigue, headache, unconsciousness or asphyxiation.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Get immediate medical attention.

Inhalation: If breathing difficulties, dizziness, or light-headedness occur when working in areas with high vapor concentrations, victim should seek fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, DO NOT induce vomiting. Give large quantities of milk or water. Call a physician or poison control center.

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 (CNS) disease, neurological conditions, skin disorders, chronic respiratory diseases, or impaired liver or kidney function should avoid exposure. Allergies, chronic asthma may be exacerbated by fumes from this product.

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

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point: 42 °C

Flash Point Method: Closed cup

Auto ignition: 230°C

LEL: 0.6

UEL: 6.0

Extinguishing Media: Use dry chemicals, carbon dioxide foam, water fog, or inert gas (nitrogen) for small fires. For large fires use foam, water fog, or water spray. Water fog and spray are effective in cooling containers and adjacent structures but might cause frothing and/or not achieve extinguishment. A water jet may be used to cool the container's external walls to prevent pressure build-up, auto ignition, or explosion. NEVER use a water jet directly on the fire. Product will float and can be re-ignited on surface of water.

Special Fire-Fighting Procedures: When entering confined space, wear positive pressure NIOSH-approved SCNA, full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots). Use water spray to cool containers, to prevent weakening of container structure or buildup of vapor pressure which could result in container rupture. Fight the fire from the maximum distance or use unmanned hose holders or monitor nozzles.

Unusual Fire And Explosion Hazards: Vapors are heavier than air and may travel along the ground. Prevent generation of mists. When mixed with air in certain proportions and exposed to an ignition source, its vapor can cause a flash fire. If container is not properly cooled, it can rupture in the heat of a fire.

Combustion Products: Above 38°C explosive vapor/air mixtures may be formed. This material releases vapors at or approaching its flash point temperature.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Spilled Or Released: Ventilation. Combustible material. Evacuate all non-essential personnel from the immediate area. Eliminate potential sources of ignition. A vapor-suppressing foam may be used to reduce vapors. Wear appropriate respirator and other protective clothing. (Extra personal protection: filter respirator for organic vapors of low boiling compounds.) Do not walk through spilled material. Contain the spill. Remove with non-sparking equipment or soak up residue with an absorbent such as clay, sand, or other inert material. Place in

non-leaking containers and seal tightly for proper disposal. Flush area with water to remove trace residue and dispose of flush solution as above. Do not wash into sewers.

7. HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Use only with adequate ventilation. Keep containers closed and do not handle or store near heat, sparks, or any other potential ignition sources. Bond and ground all equipment. Store in a cool, dry, well ventilated FIREPROOF area or separate safety cabinet. Do not store above 49°C/120°F. Do not store with incompatible materials. Keep separate from strong oxidants. Do not store or consume food, drink, or tobacco where they may become contaminated with this material. NO OPEN FLAMES, NO SPARKS, AND NO

SMOKING. Above 38° C use a closed system, ventilation, and explosion-proof electrical equipment.

Other Precautions: All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse containers. Empty containers may contain material residues which can ignite with explosive force. Cutting or welding of empty containers can cause fire, explosion, or release fumes from residues. Keep containers closed and drum bungs in place. Dispose of in a licensed facility.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: If used under normal operating conditions with adequate ventilation, respiratory protection is not required. For known vapor concentrations above the exposure guideline, use a NIOSH-approved organic vapor respirator. Refer to OSHA 29 CFR 1910.13

Ventilation: Ventilation rates should match conditions of use to keep airborne concentrations of vapor and/or mists below exposure limits.

Protective Gloves: Disposable PVC, neoprene, nitrile, and vinyl gloves which are impermeable to the specific material are recommended.

Eye Protection: Chemical safety goggles.

Other Protective Clothing or Equipment: Avoid skin contact. Wear appropriate equipment to prevent probability of exposure and personal contact. It is recommended that fire-retardant garments be worn while working with flammable and combustible liquids. If splashing or spraying is expected, chemical-resistant protective clothing should be worn.

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: Avoid inhalation of vapor. Personal contact with this product should be avoided. See Section 2.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Clear, yellow liquid with citrus odor.

Solubility In Water: Partly water miscible.

Vapor Pressure: 2.43mm Hg @68°F

Vapor Density: < 5.14

Freezing Point: -65°- -25°C

Vapor Density: < 5.14

Boiling Point: 310°F - 395°F

Specific Gravity: 0.78 @25° C

Melting Point: Not applicable

Evaporation Rate: 0.11 (n-Butyl acetate =1)

Percent Volatile: 99.3

Ph: Not applicable

Molecular Weight: Not applicable Pounds Per Gallon: 6.53
V.O.C. is 775.4 gm/L; 98.9 %; 6.46 lbs/gal.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions To Avoid: Extreme heat sparks and open flames. Keep from strong acids and strong oxidizing conditions.

Incompatibility: Strong acids, alkalis, and oxidizers such as liquid chlorine, other halogens, hydrogen peroxide, and oxygen. May soften some plastics and rubber.

Hazardous Decomposition Or By Products: Oxides of carbon, nitrogen, and sulfur.

Hazardous Polymerization: Will Not Occur

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Discharge, treatment or disposal may be subject to Federal, State (provincial in Canada) or local laws. Hazardous waste characteristic: D001.

14. TRANSPORT INFORMATION

This material is not regulated for domestic ground shipments by the U.S. Department of Transportation (DOT) when transported in non-bulk (a packaging which has a maximum capacity of 119 gallons or less as a receptacle for a liquid). Reference 49 CFR 173.120 (b) (2) and 173.150 (f) (1).

In summary, for non-bulk domestic ground shipments:

DOT Class: Not Regulated

Hazard Class: Not Applicable

UN No.: Not Applicable

Packing Group:

Guide No.:

If this material is offered for domestic ground shipment in bulk (a packaging which has a maximum capacity greater than 119 gallons as a receptacle for a liquid), then the material is regulated. Reference 49 CFR 173.120 (b) (2) and 173.150 (f) (2).

In summary, for bulk domestic ground shipments:

DOT Shipping Name: Combustible Liquid, N.O.S.

(Contains Petroleum Distillates)

Hazard Class: Combustible

UN No.: NA 1993

Packing Group: III

Guide No. 128

The domestic provisions provided for in non-bulk and bulk ground shipments are not valid for transportation by aircraft or vessel and they are not valid for international shipments. Please follow the appropriate DOT regulations in 49 CFR and the information referenced where appropriate in the IATA Dangerous Goods Transportation Regulation, the International Maritime Organization (IMO), the International Civil Aviation Organization (ICAO) and our NFTA partner hazardous material regulation requirements.

15. REGULATORY INFORMATION

TSCA: All ingredients in this finished product are listed on the EPA TSCA INVENTORY.

SARA TITLE III: 1, 2, 4 Trimethylbenzene (Cas # 95-63-6), Xylene (Cas#1330-20-7), Cumene (Cas# 98-82-8), and Ethylbenzene (Cas# 100-41-4) are components of ingredients in product and are listed under Section 313.

CALIF. PROP. 65: This product contains a mixture including Benzene and Toluene at trace levels. 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 benzene and toluene known to cause birth defects or other reproductive harm.

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

SCAQMD Rule 443.1

Photochemically Reactive: No

Maximum Grams of VOC per Liter: 775 gm/L

Vapor Pressure: 2.43 mg Hg @ 68°F

16. OTHER INFORMATION (HMIS)

Health: 1

Flammability: 2

Reactivity: 0

Protective: b

OTHER ADDITIONAL INFORMATION: The information and recommendations contained herein are based on data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.