

NETWORK PRO ONE AR ALCOHOL REPLACEMENT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: **Photo Systems Inc.** Product Name: **PRO ONE AR**
Photo Systems, Inc., 7200 Huron River Dr., Dexter, MI 48130
Product Number: **23818** Date Prepared: 09/17/2007
Customer Information Phone Number: 1-734-426-4646
CHEMTREC®: 24 Hour Emergency Transport Phone Number: 1-800-424-9300

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	240 mg/m ³ TWA8	20 ppm TWA8	40-60
1, 2-PROPANEDIOL	57-55-6	N.E.	N.E.	30-40

3. HAZARDOUS IDENTIFICATION

Emergency Overview: **WARNING! This product is combustible.**

POTENTIAL HEALTH EFFECTS

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

Inhalation: High concentrations of vapor cause irritation to the respiratory tract (nose and throat). Symptoms may include headache.

Ingestion: Moderately toxic. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Ingestion of significant quantities may result in red blood cell hemolysis, with secondary effects to kidney and liver.

Skin Contact: Brief contact may cause slight skin irritation and local redness.

Signs And Symptoms Of Exposure: Eye irritation, respiratory irritation, dermatitis, difficulty breathing, abdominal pain, skin irritation, mucus membrane irritation, coughing, nausea, diarrhea.

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, medical attention immediately.

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.

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: Skin contact may aggravate an existing dermatitis.

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: 68° C

Flash Point Method: CC

Auto ignition: N.E.

LEL: 1.1 (for 2-butoxy ethanol)

UEL: 10.6

Extinguishing Media: Apply alcohol-type or all-purpose-type foam by manufacturer's technique for large fires. Use carbon dioxide or dry chemical media for small fires.

Special Fire-Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full-face piece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool. Do not direct a solid stream of water into hot, burning pools; this may cause frothing and increase fire intensity. Burning liquids may be extinguished by dilution with water.

Unusual Fire And Explosion Hazards: Combustible liquid. The components in this material may produce a floating fire hazard in extreme fire conditions. Container may rupture.

Combustion Products: Carbon monoxide and carbon dioxide.

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 the spillage. Dike the spill. Prevent liquid from entering sewers, waterways or low areas. Absorb spillage in inert material. Soak up with sand, or soil. 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. Recommend incinerate in a furnace where permitted. At very low concentrations in water, this product is biodegradable in a biological wastewater treatment plant.

7. HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Store in a cool, dry, well ventilated area. Keep away from heat, sparks, and flame. Keep containers closed. Do not store with incompatible materials. Do not store or consume food, drink, or tobacco where they may become contaminated with this material. Combustible.

Other Precautions: All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse containers. Triple rinse before disposal. Dispose of in a licensed facility. Recommended crushing or other means to prevent re-use. Store separate from oxidizing agents.

Process Hazard: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperatures and pressure, or sudden ingress of air into hot equipment under vacuum, may result in ignitions without the presence of obvious ignition sources.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Clear liquid, specific smell.

Boiling Point: 171° C

Vapor Pressure: N.E.

Solubility In Water: Miscible

Melting Point: Not applicable

Freezing Point: N.E.

Specific Gravity: 0.96

Vapor Density: Heavier Than Air

Percent Volatile: 100

Evaporation Rate: N.E.

Molecular Weight: Not applicable

Pounds Per Gallon: 7.99

Ph: Not applicable

V.O.C. is 814.9 g/L or 85 % or 6.79 lb. /gal.

Other Properties:

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: None known.

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 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 Ethylene Glycol Monobutyl Ether)
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: This product contains Ethylene Glycol which listed under Sara Title 313.
CALIF. PROP. 65: NONE
CARCINOGENICITY: NONE OF THE COMPONENTS IN THIS CHEMICAL IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

SCAQMD Rule 443.1

Photochemically Reactive: No
Maximum Grams of VOC per Liter: 815 m/L
Vapor Pressure: N.E. mm Hg@ 20 Degrees C

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.