

**1. CHEMICAL NAME AND COMPANY IDENTIFICATION**

**Formulated/Manufactured By:** Tower Products, Inc.  
2703 Freemansburg Avenue  
Easton, PA 18045

**Information Telephone Number:** 1-800-527-8626 or 610-253-6206

**For Chemical Spill Emergency Call:** CHEMTREC: 1-800-424-9300

**Product Name:** LO-VO WASH CA-UV (Low VOC Wash for UV/Hybrid Inks)

**CAS Number:** Mixture - Not Established

**2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable Liquids (Category 4)  
Skin Irritation (Category 3)  
Eye Irritation (Category 2B)

**GHS label elements, including hazard and precautionary statements**

Pictogram(s) None

Signal Word WARNING!

## Hazard statement(s)

H227: COMBUSTIBLE LIQUID.  
H316: CAUSES MILD SKIN IRRITATION.  
H320: CAUSES EYE IRRITATION.

## Precautionary statement(s)

## Prevention:

P210: KEEP AWAY FROM HEAT/HOT SURFACES/SPARKS/OPEN FLAMES AND OTHER IGNITION SOURCES.  
NO SMOKING.  
P264: WASH SKIN THOROUGHLY AFTER HANDLING.

## Response:

P370+P378: IN CASE OF FIRE: USE DRY CHEMICAL OR CARBON DIOXIDE TO EXTINGUISH.  
P302+P352: IF ON SKIN: WASH WITH PLENTY OF WATER.  
P305+P351+P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

## Storage:

P403+P233: STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.

## Disposal:

P501: DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL REGULATIONS.

**HMIS Classification**

Health Hazard: 1                      Flammability: 2                      Physical Hazard: 0                      Personal Protection: B

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Component(s)</u>	<u>CAS Number</u>	<u>*Concentration (weight)</u>
Dipropylene Glycol Monomethyl Ether	34590-94-8	10-20%
2-Ethylhexanol	104-76-7	1-20%

\* In accordance with paragraph (i) of §1910.1200, exact chemical percentages (concentration) of composition have been withheld as a trade secret.

**4. FIRST AID MEASURES**

**Exposure Routes:** Inhalation, Ingestion, Skin

**Eye Contact:** Flush with large volume of water for at least 15 minutes. Get immediate medical attention.

**Inhalation:** Remove to fresh air. Get immediate medical attention.

**Ingestion:** Get immediate medical attention. Do not induce vomiting.

**Skin Contact:** Flush area with large amounts of water for at least 15 minutes. Get immediate medical attention.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Use dry chemical or carbon dioxide.

**Specific Hazards:** Combustible Liquid. Upon combustion, the product may form carbon monoxide and other organic compounds. Product containers may rupture from vapor pressure when exposed to heat from fire.

**Special protective equipment for fire-fighters:** Use self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions and protective equipment:**

**Respiratory Protection:** Use supplied air equipment or respirators with proper NIOSH approved cartridges.

**Protective Gloves:** Impervious or chemical resistant gloves (consult safety equipment supplier).

**Eye Protection:** Chemical splash goggles recommended against potential eye contact.

**Other Protective Clothing and Equipment:** Safety shoes and aprons recommended.

**Methods for Clean-Up:**

**Minor Spills:** Absorb material with ground clay, vermiculite, sand, or similar absorbent material and place into containers for disposal according to local and/or state regulations.

**Major Spills:** Dike and contain spill. Eliminate potential sources of ignition, and shut off source of spill if possible. Remove liquid by chemical vacuum, absorbent material, or other safe and approved methods, and place into containers for disposal according to local and/or state regulations. Flush area with water to remove residue, and remove flushed solutions as above.

**7. HANDLING AND STORAGE**

**Handling:** Combustible Liquid - empty containers can be hazardous and contain explosive vapors. Do not reuse containers. Ground fixed equipment. Bond and ground transfer equipment and containers.

**Storage:** Store in a cool, dry, ventilated area, away from incompatible substances. Keep containers closed when not in use. Freezable.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Exposure Guidelines:**

<u>COMPONENT</u>	<u>CAS No.</u>	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV/TWA</u>	<u>ACGIH TLV/STEL</u>	<u>OTHER RATING</u>
Dipropylene Glycol Monomethyl Ether	34590-94-8	100ppm(skin)	100ppm(skin)	150ppm(skin)	
2-Ethylhexanol	104-76-7	N/E	N/E	N/E	

Significant potential for dermal (skin) absorption.

**Exposure Controls:** Avoid open electrical sources near product vapor areas.

**Personal Protection Equipment:**

**Eyes:** Chemical splash goggles recommended.

**Skin and body:** Impervious or chemical resistant gloves (consult safety equipment supplier).

**Respiratory:** Ventilation in work area should be sufficient to maintain atmosphere with vapor level below lowest listed TLV. If TLV's are exceeded, use a respirator with appropriate NIOSH approved cartridges or supplied air equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Light colored liquid.

**Odor:** Ether solvent odor.

**pH:** N/A

**Melting Point:** N/A

**Boiling Point:** 360° F

**Flash Point:** > 142° F

**Flammable Limits:**

**LEL:** N/A

**UEL:** N/A

**Vapor Pressure:** (mmHg) < 1.0 @ 68° F (20° C)

**Vapor Density:** (Air = 1) N/A

**Specific Gravity:** (Water = 1) 0.97

**Solubility in water:** Emulsifies

**Maximum VOC Content:** 0.8 Lb/Gal (95 Gm/L)

**Maximum VOC %:** 10%

**Odor Threshold:** N/A

**Evaporation Rate:** N/A

**Relative Density:** N/A

**Partition Coefficient: N-Octano/Water:** N/A

**Auto-ignition Temperature:** N/A

**Decomposition Temperature:** N/A

**Viscosity:** N/A

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Incompatible Materials:** Avoid strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide and other compounds during combustion.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Avoid exposure to high heat sources, electrical and welding arcs, open flame and strong oxidizing agents.

**Warning:** Spontaneous combustion may occur when solvent soaked combustible materials (paper, cotton etc.) are allowed to stand in confined areas.

## 11. TOXICOLOGICAL INFORMATION

**(ATE) FOR MIXTURE:**

Specific tests have not been conducted on this product. Our evaluations based on information from the ingredients and technical literature. Data for this material has been used to estimate the symptoms and effects of exposure.

**Oral LD50:**

LD50 Oral -  $\geq$  500,000 mg/kg

**Dermal LD50:**

LD50 Dermal -  $\geq$  500,000 mg/kg

**Inhalation LC50:**

LC50 Inhalation -  $\geq$  217 mg/l

**Other information on Acute Toxicity:**

No data available

## SAFETY DATA SHEET

LO-VO WASH CA-UV

DATE: 1/1/2015

**Routes of exposure:** Inhalation, Ingestion, Skin**Acute:** Overexposure may lead to skin irritation, eye irritation, and central nervous system depression, leading to headaches, nausea and unconsciousness.**Chronic:** Overexposure in high concentrations may produce central nervous system depression, dermatitis and eye irritation.**Signs and Symptoms of Exposure:** Overexposure may lead to dizziness, headaches, dermatitis and eye irritation.**Medical Conditions Aggravated by Exposure:** Preexisting eye, skin, liver, kidney, or respiratory disorders may be aggravated by exposure.**Carcinogenicity (NTP, IARC, OSHA):** Components of this product have not shown any evidence of carcinogenicity.**12. ECOLOGICAL INFORMATION****Ecotoxicity:** No data available**Persistence and degradability:** No data available**Bioaccumulative potential:** No data available**Mobility in the soil:** No data available**Other adverse effects:** No data available**13. DISPOSAL CONSIDERATIONS****Waste disposal methods:**

Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**14. TRANSPORTATION INFORMATION**

<u>U.S. D.O.T. DESIGNATION</u>	<u>ID NUMBER</u>	<u>HAZARD CLASS</u>	<u>PACKING GROUP</u>
Cleaning Liquid. Not Regulated			

**U.N. DESIGNATION**

Same as D.O.T.

**15. REGULATORY INFORMATION**

**Regulatory Information:** This information may be useful in complying with various federal and state regulations. Components present in this product at a level which could require reporting under EPA Regulation 40CFR302 (CERCLA) Section 102 and EPA Regulation 40CFR372 (SARA) 313: None.

Product may contain components which are further regulated by state and/or local agencies - Consult Appropriate Agencies.

**Notification status:**

U.S.A.: Toxic Substances Control Act (TSCA)	Y
Canada: Domestic Substances List (DSL):	Y

**16. OTHER INFORMATION**

**For More Information, Consult Tower Products, Inc.**

**This Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied Is Made.**

**Date of Preparation:** January 1, 2015