



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

Product Name: Print Head Flush for SolaChrome UV<sup>®</sup> Inks  
Commonly used in the following printer(s):  
DisplayMaker 72UVR

Product Number: 0901147-500  
Chemical Name: Diethylene glycol monoethyl ether acetate  
Chemical Family: Glycol Ether Solvent  
CAS Number: 112-15-2

#### Company Identification

MacDermid ColorSpan Corporation  
7090 Shady Oak Road  
Eden Prairie, MN 55344 USA

In case of exposure, please contact local Poison Control Center  
Emergency phone for spills, leaks, fire, exposure or accident call  
CHEMTREC: 1-800-424-9300 or 1-703-527-3887  
Product information: (800) 925-0563  
Revision Date: 10/04/04

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS No.	CONTENTS	EINECS	SYMBOL	RISK No.
2-(2-ETHOXYETHOXY)ETHYL ACETATE	112-15-2	60-100 %	203-940-1	Xi	36/38

### 3. HAZARDS IDENTIFICATION

Irritating to eyes and skin.

Hazardous Materials Identification System (HMIS) Codes:

Health Hazard (Blue): 1  
Flammability Hazard (RED): 1  
Physical Hazard (Yellow): 0  
Personal Protection Equipment: B - eye protection and gloves

### 4. FIRST AID MEASURES

EYES: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes and get immediate medical attention.

SKIN CONTACT: Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing

if soaked through and wash as above. Get prompt medical attention if symptoms occur after washing.

INGESTION: After liquid has been swallowed, induce vomiting. Never make an unconscious person vomit or drink fluids. Rinse mouth thoroughly. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention immediately.

INHALATION: Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

GENERALITIES: In all cases of doubt or if symptoms persist, seek medical attention and show this sheet to the doctor.

## 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist.  
Carbon dioxide (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc. Foam.

SPECIAL FIRE FIGHTING PROCEDURES: Use pressurized air mask if substance is involved in a fire. Cool containers exposed to flames with water until well after the fire is out.

UNUSUAL FIRE & EXPLOSION HAZARDS: Not available.

CONDITIONS OF FLAMMABILITY: Heat, sparks, or flame.

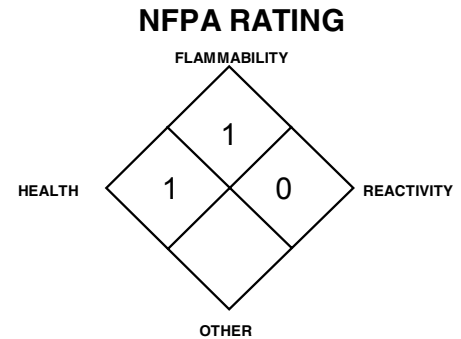
UPPER FLAMMABLE LIMIT: Not available.

LOWER FLAMMABLE LIMIT: Not available.

AUTO-IGNITION TEMPERATURE: 360° C

EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: Not available.

EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: Not available.



## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS DURING SPILL: Avoid contact with skin or eyes. Avoid breathing vapors. Exclude sources of ignition and ventilate the area.

SPILL CLEANUP METHODS: Clean-up personnel should use respiratory and/or liquid contact protection. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Collect and contain spilled material in a chemical absorbent (clay-based material, universal binder, etc.). Small quantities may be flushed to drains with plenty of water.

## 7. HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks, ignition sources and open flame. Avoid any contact with skin and eyes. Avoid breathing vapors, ventilate well. Wear splash goggles and gloves when handling large quantities.

STORAGE: Keep in cool, dry, ventilated storage in containers tightly closed. Store away from traffic and out of reach of children. Flammable/combustible - store isolated from oxidizing materials, heat, and flames. Ground container and transfer equipment to eliminate static electric sparks. May attack some plastics, rubber, and coatings.

Storage temperature: Standard room temperature (68 degrees Fahrenheit).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PROCESS CONTROL MEASURES: Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

VENTILATION: Provide adequate general and local exhaust ventilation.

PROTECTIVE GLOVES: Appropriate protective gloves must be used if there is a risk of direct contact or splash. Use protective gloves made of: Neoprene.

EYE PROTECTION: Wear splash-proof eye goggles and face shield to prevent any possibility of eye contact. Available emergency eyewash station is recommended.

OTHER PROTECTION: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

WORK/HYGIENIC PRACTICES: Avoid contamination of food, drink, etc. No smoking when handling. Wash at the end of each work shift and before eating. Promptly remove any clothing that becomes wet. Isolate contaminated clothing and wash before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid  
COLORS: Colorless  
ODOR: Characteristic  
ODOR THRESHOLD: Not available.  
pH VALUE: Not applicable. Product does not dissociate in water  
SOLUBILITY: Soluble in water; miscible in most organic solvents  
SOLUBILITY VALUE (g/100g H<sub>2</sub>O/20°C): Not available.  
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available.  
SPECIFIC GRAVITY (Water=1): 1.01 @ 20 °C  
VAPOR DENSITY (air=1): 6.07  
VAPOR PRESSURE: 0.1 mmHg @ 20 °C  
EVAPORATION RATE (Butyl Acetate=1): 0.0063  
VISCOSITY: Not available.  
FREEZING POINT (°C): -25  
BOILING POINT (°C): 217 @ 760mmHg  
FLASH POINT (°C): 113 FLASH POINT METHOD: Not Available  
AUTO IGNITION TEMPERATURE (°C): 360

## 10. STABILITY AND REACTIVITY

STABILITY: Normally stable. Avoid: Heat, sparks, flames.  
HAZARDOUS POLYMERIZATION: Not Relevant.

## 11. TOXICOLOGICAL INFORMATION

### TOXICITY DATA:

Unless otherwise specified:

SENSITIZATION TO PRODUCT: Not available.  
CARCINOGENICITY: Not available.  
REPRODUCTIVE TOXICITY: Not available.  
TERATOGENICITY: Not available.  
MUTAGENICITY: Not available.  
NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: Not available.

2-(2-ETHOXYETHOXY)ETHYL ACETATE 112-15-2  
LD50(Rat)Oral 11000 mg/kg LD50(Rabbit)Skin 15000 mg/kg

INHALATION: Gas or vapor in high concentrations may irritate respiratory system.  
SKIN: Irritating to skin.  
EYES: Irritating to eyes.

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Not regarded as dangerous for the environment.  
BIO-ACCUMULATION: Bio-accumulation not likely.  
MOBILITY: Partly miscible with water.  
DEGRADABILITY: Readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: The advice in this paragraph is of a general nature only. This product must be disposed of via a licensed contractor and shall be disposed of in accordance with federal, provincial, state, and local environmental control regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Do not allow this strongly colored product to enter an effluent system. Dispose of containers as special waste.

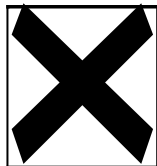
GENERAL/CLEANING: Refer to Section 7 before handling the product or containers.  
European Waste Catalogue Number (EWC) 08 03 12

## 14. TRANSPORTATION INFORMATION

GENERAL: Not regulated.

## 15. REGULATORY INFORMATION

LABEL FOR SUPPLY:



IRRITANT

## 16. OTHER INFORMATION

RISK PHRASES:

R-36/38 Irritating to eyes and skin.

SAFETY PHRASES:

S-24/25 Avoid contact with skin and eyes.

S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

S-37/39 Wear suitable gloves and eye protection.

S-60 This material and its container must be disposed of as hazardous waste.

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. The information contained herein is based upon data obtained from the manufacturer and/or recognized technical sources. This information is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide. Since the condition of handling and use are beyond our control, MacDermid ColorSpan Corporation assumes no liability for loss or injury resulting from the use of this product or the information herein. All chemicals may present unknown health hazards and should be used with caution. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunto with respect to the information contained herein or the product to which the information refers. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions and/or compliance with federal, provincial, state, and local laws and regulations.