

MATERIAL SAFETY DATA SHEET

Product name: CPS Screen Wash A8
Last revised date: 2003-07-07

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Printdate: 2003.07.07
SDS-ID: US-D/1.0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product name: **CPS SCREEN WASH A8** Container size: 5,25 and 210 LT

Supplier: Autotype Americas, Inc.
2050 Hammond Drive
Schaumburg, IL 60173-3810
Tel: 1-847-303-5900
Emergency telephone: 1-800-424-9300

Application: To remove ink from screen printing mesh prior to screen reclaim.

2. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: organic solvents and surfactants.

This product is covered by the OSHA Hazard Communication Rule 29, CFR 1910.1200

The following substances shall be indicated according to legislation:

Dipropylenglycolmethylether, CAS-No. 34590-94-8: 1-10 %

N-Methyl-2-pyrrolidone, CAS-No. 872-50-4: 2.3%

Solvent Naphtha (Petroleum), heavy aromatic, CAS-No. 64742-94-5: 5-10 %

Non-ionic surfactants: 1-5 %

3. HAZARDS IDENTIFICATION

Human health: May cause irritation on eye contact. In high concentrations, vapors may be irritating to the respiratory system. The product contains components which may penetrate skin. This product contains no ingredient listed on the NTP, OSHA or IARC carcinogen lists.

Environment: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

Inhalation: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring along these instructions.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. If uncomfortable: Seek hospital and bring along these instructions.

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5. FIRE-FIGHTING MEASURES

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. If possible, remove containers exposed to heat or cool with water.

Specific hazards: During fire, health hazardous gases may be formed. The exposures limits and the flash point are stated in point 9.

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated by the workplace.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid inhalation of vapors and spray mists. Avoid contact with skin and eyes. For personal protection, see point 8.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Methods for cleaning up: Absorb spillage with absorbing material. Flush contaminated area with plenty of water. For waste disposal, see point 13.

7. HANDLING AND STORAGE

Safe handling advice: Observe good industrial hygiene practices. Avoid inhalation of vapors and spray mists. Avoid contact with skin and eyes.

Technical measures: No special precautions.

Technical precautions: Mechanical ventilation may be required.

Technical measures for safe storage: Follow rules for flammable liquids.

Storage conditions: Store in closed original container at temperatures between 40°F and 85°F.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mist.

Chemical name:	Exposure limits:	Type:	Notes:	References:	
Dipropylene glycol methyl ether	100ppm	TWA	Skin	ACGIH (2002)	
Dipropylene glycol methyl ether	100ppm	600mg/m ³	TWA	Skin	OSHA
Stoddard Solvent	100ppm	TWA		ACGIH (2002)	
Stoddard Solvent	500ppm	2900mg/m ³	TWA	-	OSHA

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in collaboration with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation: Use respiratory equipment with gas filter, type A2.

Hand protection: Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The product consists of substances for which it is not possible to suggest a common suitable glove material. Therefore, a suitable type of gloves cannot be recommended without knowing the actual usage of the product. The most suitable glove must be chosen in collaboration with the supplier of gloves, who can inform about the breakthrough time of the glove material.

Eye protection: Wear goggles/face shield.

Skin protection: Wear apron or protective clothing in case of splashes.

Environmental exposure controls: Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Physical state:</u>	Clear liquid	<u>Odor:</u>	Characteristic	<u>pH:</u>	not relevant
<u>Flash point:</u>	178 °F	<u>Boiling point:</u>	280-470 °F	<u>Auto flammability:</u>	> 400 °F
<u>Explosive limits:</u>	0,8-8,0 vol. %	<u>Evaporation rate. (BuAc=100):</u>	<1	<u>Vapor pressure:</u>	0,2 mm Hg
<u>Relative density:</u>	1,05	<u>Solubility:</u>	Organic solvents.	<u>Kinematics viscosity at 40°C:</u>	<7 mm ² /s

VOC (Volatile Organic Substances, SCAQMP Rule 1171): 850 g/l

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions.

Conditions/ materials to avoid: Heating. Strong bases.

Hazardous decomposition products: None in particular.

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11. TOXICOLOGICAL INFORMATION

Inhalation: In high concentrations, vapors may irritate throat and respiratory system and cause coughing.
LCLo (inhalation, rat): 1 gm/m³ (RTECS) for N-Methyl-2-pyrrolidone.
LC50 (inhalation, rat): > 590 mg/m³/4H (RTECS) for solvent naphtha (petroleum), heavy aromatic.

Skin contact: May irritate. Prolonged contact may cause dryness of the skin. Contains organic solvents which may penetrate the skin.

Eye contact: Splashes may irritate.

Ingestion: Irritating. May be absorbed in the body and cause dizziness, nausea and vomiting.
LD50 (oral, rat): 3914 mg/kg (RTECS) for N-Methyl-2-pyrrolidone.
LD50 (oral, dog): 7500 mg/kg (RTECS) for dipropylenglycolmethylether.
LDLo (oral, rat): 5 ml/kg (RTECS) for solvent naphtha (petroleum), heavy aromatic.

Specific effects: The hydrocarbon: Frequent inhalation of even small concentrations may cause irritability, fatigue and memory failure and eventually permanent damage to the nervous system, including the brain.
This product contains no ingredient listed on the NTP, OSHA or IARC carcinogen lists.

12. ECOLOGICAL INFORMATION

Mobility: The product is partly miscible with water and may spread in the aquatic environment. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. The product is insoluble in water and will sediment in water systems.

Degradability: The product is biodegradable, but it must not be discharged into drains without permission from the authorities.

Ecotoxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Bioaccumulative potential: No data available on bioaccumulation.

Other adverse effects: The product contains volatile, organic compounds which have a photochemical ozone creation potential.

13. DISPOSAL CONSIDERATIONS

Dispose of waste and residues according to agreement with local authorities.

14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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15. REGULATORY INFORMATION

TSCA: All chemicals included in the product are TSCA listed.

N-Methyl-2-pyrrolidone, CAS-No. 872-50-4:
SARA Section 313: Form R reporting required for 1.0% de minimis concentration.

NFPA Rating: Health:1 Fire:2 Reactivity:1 Other:-

Specific provisions: National specific regulation may apply.

National regulation: The following lists have been checked:
Threshold Limit Values (2002), ACGIH, by the American Conference on Governmental Industrial Hygienists.
The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards, Air contaminants.
U.S. Department of health and human services: 2001 - Report on Carcinogens - 9th Ed.
International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization, 1972-2000.
The Code of Federal Regulation, Title 40, part 261.33. Identification and listing of hazardous waste.
The Code of Federal Regulation. Title 40, part 355.50. Emergency Planning and Notification
The Code of Federal Regulation. Title 40, part 302.4. Designation, Reportable Quantities, and Notification.
The Code of Federal Regulation. Title 40, part 68.130. Chemical Accident Prevention Provisions.
The Code of Federal Regulation. Title 40, part 372.65. Toxic Chemical Release Reporting: Community Right to Know.

16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

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