MATERIAL SAFETY DATA SHEET

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

Product name:	CPS Screen Wash A5 (US)		
Application:	To remove ink from screen printing mesh prior to screen reclaim.	Container size:	1, 5, 25 and 210 l
Supplier:	Autotype Americas, Inc. 2050 Hammond Drive Schaumburg, IL 60173-3810 Tel: 1-847-303-5900	Emergency phone no.:	1-800-424-9300

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:

Solvent Naphta (Petroleum), heavy aromatic, CAS-No. 64742-94-5: 30-60%
Dipropylenglycolmethylether, CAS-No. 34590-94-8: 30-60%
2-Methoxy-1-methylethylacetate, CAS-No. 108-65-6: 10-30 %
Propylenecarbonate, CAS-No. 108-32-7: 1-5%
Non-ionic surfactants: 1-10 %

3. HAZARDS IDENTIFICATION

Physical and Chemical Hazards:	The product is flammable.
Human health:	Degreasing to skin. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Frequent inhalation of even small concentrations may cause irritability, fatigue and memory failure. The product contains components which may penetrate skin. This product contains no ingredient listed on the NTP, OSHA or IARC carcinogen lists.
Environment:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

Inhalation:	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring along these instructions. [04I015(T)]
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: Continue flushing during transport to hospital. Bring along these instructions.
Ingestion:	Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Immediate transport to hospital. Bring along these instructions.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
Specific hazards:	During fire, health hazardous gases may be formed. The explosion 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. Avoid smoking and use of open fire.
Environmental precautions:	Avoid release to the environment.
Methods for cleaning up:	Absorb spillage with non-combustible, 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: Avoid smoking and use of open fire. Avoid exposure to temperatures above the flash point.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Chemical name:	Exposure limits:		Type:	Notes:	References:
Dipropylene glycol methyl ether	100ppm		TWA	Skin	ACGIH
Dipropylene glycol methyl ether	100ppm	600mg/m³	TWA	Skin	OSHA
Stoddard Solvent	100ppm		TWA		ACGIH
Stoddard solvent	500ppm	2900mg/m³	TWA	-	OSHA

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

Hand protection: Risk of contact: 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.

Environmental exposure controls: Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	clear liquid
Odour:	characteristic
pH:	not relevant
Boiling point:	285-535°F
Flash point:	122°F
Explosive properties:	0.6-14.0 vol%
Vapour pressure:	1 mmHg
Relative density:	0.95
Solubility:	Soluble in: organic solvents
Other data:	kinematic viscosity at 104°F: <7 mm²/s Autoignition temperature: > 500°F Evaporation rate (BuAc=100): 2 VOC (Volatile Organic Substances, ASTM D2369-01): 910 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable under normal temperature conditions.
Conditions/ materials to avoid:	Heating. Bases.
Hazardous decomposition products:	None in particular.

11. TOXICOLOGICAL INFORMATION

Inhalation: Vapours and spray mist may irritate throat and respiratory system and cause coughing. Vapours may cause drowsiness and dizziness. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Skin contact: May irritate. Repeated exposure may cause skin dryness or cracking. Contains components which may penetrate the skin.

LD50 (skin, rabbit): > 5 gm/kg (RTECS) for 2-Methoxy-1-methylethylacetate.
LD50 (skin, rabbit): 10 mL/kg (RTECS) for dipropylenglycolmethylether.

Eye contact: Irritating and may cause redness and pain.

Ingestion: Irritating. May be absorbed in the body and cause dizziness, nausea and vomiting.

LD50 (oral, dog): 7500 mg/kg (RTECS) for dipropylenglycolmethylether.
LD50 (oral, rat): 8532 mg/kg (RTECS) for 2-Methoxy-1-methylethylacetate.

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.
Degradability:	The product is biodegradable, but it must not be discharged into drains without permission from the authorities.
Ecotoxicity:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Bioaccumulative potential:	No data available on bioaccumulation.
Other adverse effects:	None known.

13. DISPOSAL CONSIDERATIONS

Dispose of waste and residues according to agreement with local authorities. This product, if discarded, may be considered a characteristic hazardous waste under RCRA (ignitable waste, D001). Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

14. TRANSPORT INFORMATION

UN-number:	1993
Proper shipping name:	FLAMMABLE LIQUID, N.O.S (2-Methoxy-1-methylethyl acetate, Solvent Naphta (Petroleum), heavy aromatic)
Sea (IMDG):	
Class:	3
PG:	III
MP:	Yes
EmS:	F-E , S-E
MFAG:	1
Inland waterways:	To be handled locally.
Air (ICAO/IATA):	
Class:	3
PG:	III
Land (RID/ADR):	
Class:	3
Packing group	III
Primary risk label	3
Subsidiary risk label	-

15. REGULATORY INFORMATION

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

CERCLA: Final RQ = 100 pounds (45.4 kg).

NFPA Rating: Health:2 Fire:2 Reactivity:0 Other:-

Specific provisions: State and local regulation may apply.

National regulation: The following lists have been checked:

Threshold Limit Values (2003), 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: 2002 - Report on Carcinogens - 10th 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 listning 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 following sections contain revisions or new statements: 3 8, 9, 12, 14.

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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