

MATERIAL SAFETY DATA SHEET

Product name: CPS Screen Cleaner Tx
Last revised date: 2004-01-14

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Print date: 2004-01-14
SDS-ID: US-D/2.0

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

Product name: CPS Screen Cleaner Tx

Application: To remove ink from screen printing mesh prior to screen reclaim. Container size: 1, 5, 25, 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: dialkylesters and organic solvents.

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: 30-60%
2-(2-butoxyethoxy)ethanol, CAS-No. 112-34-5: 1-10%
Distillates (petroleum), hydrotreated light, CAS-No. 64742-47-8: 1-<10%
Propylenecarbonate, CAS-No. 108-32-7 1-<10%

3. HAZARDS IDENTIFICATION

Human health: May cause minor irritation on eye contact. Prolonged skin contact may cause redness and irritation. In high concentrations, vapours may be irritating to the respiratory system.
This product contains no ingredient listed on the NTP, OSHA or IARC carcinogen lists.

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. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

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 foam, carbon dioxide, dry powder or water fog. If possible, remove containers exposed to heat or cool with water.

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 vapours and contact with skin and eyes.

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: Avoid inhalation of vapours and contact with skin and eyes.

Technical measures: Keep the workplace clean.

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 vapours.

<u>Chemical name:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
Dipropylene glycol methyl ether	100ppm	TWA	Skin	ACGIH
Dipropylene glycol methyl ether	100ppm 600mg/m ³	TWA	Skin	OSHA
Jet fuels, as total hydrocarbon vapour	200mg/m ³	TWA	Skin, A3	ACGIH
Jet fuels, as total hydrocarbon vapour	200mg/m ³	TWA	Skin, A3	ACGIH

Respiratory equipment: In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with gas filter, type A2. The use of filtering respirators should be limited to max. 3 hours per day.

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: Risk of splashes: Wear goggles/face shield.

Hygiene measures: Wash hands after handling.

Environmental exposure controls: No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear liquid
Odour: characteristic
pH: not relevant
Boiling point: 290-465°F
Flash point: 160°F
Explosive properties: 1.1-14.0 vol%
Vapour pressure: 0.2 mmHg
Relative density: 0.969
Solubility: Soluble in: organic solvents
Other data: kinematic viscosity at 104°F: <7 mm²/s
Autoignition temperature: > 392°F
Evaporation rate (BuAc=100): <1.
VOC (Volatile Organic Substances, ASTM D2369-01): 900 g/l

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10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions.

Conditions/
materials to avoid: Heating.

Hazardous
decomposition products: None in particular.

11. TOXICOLOGICAL INFORMATION

Inhalation: In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Skin contact: Slightly irritating. Prolonged contact may cause dryness of the skin.

LD50 (skin, rabbit): 10 mL/kg (RTECS) for dipropylenglycolmethylether.
LD50 (skin, rabbit): 2700 mg/kg (RTECS) for 2-(2-butoxyethoxy)ethanol.

Eye contact: May irritate and 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): 5660 mg/kg (RTECS) for 2-(2-butoxyethoxy)ethanol.

Specific effects: 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 insoluble in water. 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: Not stated.

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.

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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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

2-(2-butoxyethoxy)ethanol, CAS-No. 112-34-5:
SARA Section 313: Form R reporting required for 1.0% de minimis concentration.

NFPA Rating: Health:1 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 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 following sections contain revisions or new statements: 3, 5, 7, 8, 9, 12.

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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