

MATERIAL SAFETY DATA SHEET

Product name: CPS Activator 1
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 Activator 1

Application: Cleaning liquid for removal of haze and diazo stains on serigraphic screens for use in combination with CPS Haze Remover. 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.

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

The following substances shall be indicated according to legislation:

2-(2-butoxyethoxy)ethanol, CAS-No. 112-34-5: 7%
Dipropylenglycolmethylether, CAS-No. 34590-94-8: 10-30%
Distillates (petroleum), hydrotreated light, CAS-No. 64742-47-8: 10-30%
2-Methoxy-1-methylethylacetate, CAS-No. 108-65-6: 30-60%
Non-ionic surfactants: 2-10%
Propylenecarbonate, CAS-No. 108-32-7: 1-5%

3. HAZARDS IDENTIFICATION

Physical and Chemical Hazards: The product is flammable.

Human health: Irritating to eyes. Repeated exposure may cause skin dryness or cracking.
Harmful: may cause lung damage if swallowed. 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.
This product contains no ingredient listed on the NTP, OSHA or IARC carcinogen lists.

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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: Seek medical attention and 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. If possible, remove containers exposed to heat or cool with water.

Specific hazards: During fire, health hazardous gases may be formed. The expositions limits 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: Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapors and spray mists. Avoid contact with skin and eyes. Avoid smoking and use of open fire. For personal protection, see point 8.

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

Methods for cleaning up: Remove sources of ignition.
Small spillages: Absorb spillage with non-combustible, absorbing material.
Large spillages: Dam and absorb spillages with sand, earth or other non-combustible material.

Flush contaminated area with plenty of water. For waste disposal, see point 13.

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7. HANDLING AND STORAGE

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

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 tightly closed original container in a well-ventilated place. Avoid contact with oxidizing agents. Keep 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.

<u>Chemical name:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
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
Dipropylene glycol methyl ether	100ppm	TWA	Skin	ACGIH
Dipropylene glycol methyl ether	100ppm 600mg/m ³	TWA	Skin	OSHA

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

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: Risk of contact: Wear goggles/face shield.

Hygiene measures: Wash hands after handling.

Environmental exposure controls: Not available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear liquid
Odour: characteristic
pH: not relevant
Boiling point: 284-475°F
Flash point: 127°F
Explosive properties: 1.1-14.0 vol%
Vapour pressure: 1.0 mm Hg
Relative density: 0.928 kg/l
Solubility: Soluble in: 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): 890 g/l

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions.

Conditions/
materials to avoid: Heating. Oxidizing agents.

Hazardous
decomposition products: None under normal conditions.

11. TOXICOLOGICAL INFORMATION

Inhalation: In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Harmful: may cause lung damage if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Skin contact: Degreasing. Repeated exposure may cause skin dryness or cracking.
LD50 (skin, rabbit): 2700 mg/kg (RTECS) for 2-(2-butoxyethoxy)ethanol.
LD50 (skin, rabbit): > 5 gm/kg (RTECS) for 2-Methoxy-1-methylethylacetate.
LD50 (skin, rabbit): 10 mL/kg (RTECS) for dipropylenglycolmethylether.
LD50 (skin, rabbit): > 3200 mg/kg (RTECS) for aliphatic hydrocarbons.

Eye contact: May irritate and cause redness and pain.

Ingestion: May irritate and cause malaise. May be absorbed in the body and cause dizziness, nausea and vomiting.
LD50 (oral, rat): 5660 mg/kg (RTECS) for 2-(2-butoxyethoxy)ethanol.
LD50 (oral, rat): 8532 mg/kg (RTECS) for 2-Methoxy-1-methylethylacetate.
LD50 (oral, dog): 7500 mg/kg (RTECS) for dipropylenglycolmethylether.
LD50 (oral, rat): > 10 gm/kg (RTECS) for aliphatic hydrocarbons.

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.

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12. ECOLOGICAL INFORMATION

Mobility: The product is not miscible with water and will spread on the water surface. 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: The product contains a substance which is hazardous to aquatic organisms. Do not discharge into 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)

Sea (IMDG):

Class: 3
PG: III
MP: No
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 -

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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.

CERCLA: RQ = 100 pounds (45.4 kg).

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

Specific provisions: National specific 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, 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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