

MATERIAL SAFETY DATA SHEET

Product name: CPS Haze Remover HV Page: 1/6
Last revised date: 2003-01-07 Print date: 2003-01-07
SDS-ID: US-D/6.2

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

Product name: CPS Haze Remover HV
Application: Haze and stain remover for removal of ink and Diazo stains on screens. Container size: 1, 5, 25 and 200 kg
Supplier: Autotype Americas, Inc. 2050 Hammond Drive Schaumburg, IL 60173-3810 Emergency phone no.: 1-800-424-9300
Tel: 1-847-303-5900

2. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: water, sodium hydroxide, sodium hypochlorite and additives.

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

The following substances shall be indicated according to legislation:

Sodium carbonate, CAS-No. 497-19-8: 1-5 %
Sodium hydroxide, CAS-No. 1310-73-2: 2-5 %
Sodium hypochlorite, CAS-No. 7681-52-9: 1-5 %

3. HAZARDS IDENTIFICATION

Human health: Corrosive to skin and eyes. Spray mists irritate the respiratory system, and cause coughing and difficulties in breathing. Inhalation of mist may cause lung oedema. When heated, toxic chlorine vapours may be formed. This product contains no ingredient listed on the NTP or OSHA carcinogen lists. IARC Cancer Review: Group 3 for Sodiumhypochlorite.

Environment: The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

4. FIRST-AID MEASURES

Inhalation: Move injured person into fresh air immediately. Call an ambulance. Be aware that lung oedema may occur several hours after exposure. Bring along these instructions.

Skin contact: Flush immediately with plenty of water and remove contaminated clothing. Call an ambulance. Continue flushing during transport to hospital. Bring along these instructions.

Eye contact: Immediately flush with plenty of water. Remove any contact lenses and open eyelids widely. Call an ambulance. Continue flushing during transport to hospital. Bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting.

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5. FIRE-FIGHTING MEASURES

- Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
- Specific hazards: By heating and fire, toxic and corrosive vapours may be formed.
- Protective equipment for fire-fighters: Small quantities: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated by the workplace.
Large spillages: Use air-supplied respirator during fire fighting. Severe corrosive hazard. Wear chemical protection suits.
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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions: Avoid inhalation of vapours and contact with skin and eyes. Look out! The product is corrosive. For personal protection, see point 8.
- Environmental precautions: Do not discharge into drains, water courses or onto the ground.
- Methods for cleaning up: Flush away small spillages with plenty of water. Large spillages: Dam and absorb spillage with sand, sawdust or other absorbent. Flush contaminated area with plenty of water. For waste disposal, see point 13.
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7. HANDLING AND STORAGE

- Safe handling advice: Observe good industrial hygiene practices. Avoid inhalation of vapours and contact with skin and eyes. Immediately change drenched clothing.
- Technical measures: Never mix products containing chlorine with acidic materials. Toxic vapours may be formed.
- Technical precautions: Mechanical ventilation may be required. Provide easy access to water supply or an emergency shower. First-aid equipment, including eye wash bottle, must be available at the work site.
- Technical measures for safe storage: No special precautions.
- Storage conditions: Store in original container in a cool place, best between 4°C - 25°C.
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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. An eye wash bottle must be available at the work site. Provide easy access to water supply or an emergency shower.

<u>Chemical name:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
Sodium hydroxide	2mg/m ³	STEL	ceiling limit	ACGIH (2002)
Sodium hydroxide	2mg/m ³	-	-	OSHA 1998
Sodiumhypochlorite	0.5ppm 1mg/m ³	TWA	A4	ACGIH (2002)

Respiratory equipment: Risk of inhalation of spray mist: Use respiratory equipment with combination filter, type B+E/P3.

Hand protection: Wear protective gloves. PVC or rubber gloves are recommended. Other types of gloves can be recommended by the glove supplier.

Eye protection: Wear goggles/face shield.

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

Hygiene measures: Change contaminated clothing.

Environmental exposure controls: No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: yellow clear liquid
Odour: characteristic
pH: 12-13
Boiling point: 100 °C
Flash point: not available
Explosive properties: not available
Vapour pressure: not relevant
Relative density: 1,12
Solubility: soluble in water

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions.

Conditions/ materials to avoid: Do not mix with acids. Avoid exposure to high temperatures or direct sunlight. Do not mix with CPS Stencil Remover.

Hazardous decomposition products: By heating and fire, toxic and corrosive vapours may be formed.

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11. TOXICOLOGICAL INFORMATION

Inhalation: Spray mists are corrosive. In high concentrations: Inhalation of spray mists may cause serious shortness of breath and lung oedema.
LC50 (inhalation, rat): 2300 mg/m³/2H (RTECS) for sodium carbonate.

Skin contact: Corrosive. Prolonged contact causes serious tissue damage.

Eye contact: Corrosive. Immediate first aid is necessary.

Ingestion: Corrosive. Even small amounts may cause serious damage.
LD50 (oral, rat): 4090 mg/kg (RTECS) for sodium carbonate.

Specific effects: IARC Cancer Review: Group 3 for Sodiumhypochlorite.
This product contains no ingredient listed on the NTP or OSHA carcinogen lists.

12. ECOLOGICAL INFORMATION

Mobility: The product is water soluble and may spread in water systems.

Degradability: Not stated.

Ecotoxicity: The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

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 (corrosive waste, D002).

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14. TRANSPORT INFORMATION

UN-number: 3266

Proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. □ □
(Sodium hydroxide, sodiumhypochlorite)

Sea (IMDG):

Class: 8

PG: II

MP: No

EmS: 8-15

MFAG: 1

Inland waterways: To be handled locally.

Air (ICAO/IATA):

Class: 8

PG: II

Land (RID/ADR):

Class: 8

Packing group II

Primary risk label 8

Subsidiary risk label -

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15. REGULATORY INFORMATION

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

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

NFPA Rating: Health:3 Fire:0 Reactivity:0 Other:-

Specific provisions: State and local regulation may apply.

National regulation: The following lists and legislation 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 following sections contain revisions or new statements: 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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