

Revision Date 01 Sept 2013

Revision 5



SAFETY DATA SHEET CPS HAZE REMOVER LIQUID

1. IDENTIFICATION

| | |
|----------------------------|---|
| Product Name | CPS HAZE REMOVER LIQUID |
| Identification No. | 3266 |
| Identified uses | Screen printing |
| Supplier | MacDermid Autotype Inc. 1675 Winnetka Circle Rolling Meadows IL 60008 USA T: 001 847 818 8262 F: 001 847 818 8280 e: technical@cps.eu |
| Manufacturer | CPS - Chemical Products and Services, Grove Road, Wantage, Oxfordshire, OX12 7BZ UNITED KINGDOM T: +44 (0) 1235 773240 F: +44 (0) 1235 771196 e: technical@cps.eu |
| Emergency Telephone | 800-424-9300 (Chemtrec, 24 hours) |

2. HAZARD(S) IDENTIFICATION

OSHA Defined Hazards

INGESTION.

Causes burns.

May cause severe internal injury.

SKIN CONTACT.

Causes burns.

EYE CONTACT.

Causes burns.

Risk of serious damage to eyes.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label



Corrosive Material.

Controlled Product Classification

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Product Regulations, and the MSDS contains all required information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CPS HAZE REMOVER LIQUID

| | | |
|--|-------------------|-------|
| SODIUM HYDROXIDE | | 5-10% |
| CAS No.: 1310-73-2 | EC No.: 215-185-5 | |
| GHS Classification Skin Corr. 1A - H314 | | |

| | | |
|--|-------------------|------|
| SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE | | 1-5% |
| CAS No.: 7681-52-9 | EC No.: 231-668-3 | |
| GHS Classification Skin Corr. 1B - H314; Aquatic Acute 1 - H400 | | |

4. FIRST-AID MEASURES

Description of first aid measures**Inhalation**

Unlikely route of exposure as the product does not contain volatile substances. In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention.

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. Transport immediately to hospital and bring along these instructions.

Skin Contact

Flush immediately with plenty of water and remove contaminated clothing. Call an ambulance, continue to rinse during transportation to hospital and bring these instructions.

Eye Contact

Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. Call an ambulance and continue flushing during transportation to hospital taking along these instructions.

Most important symptoms and effects, both acute and delayed**Inhalation**

May cause irritation to the respiratory system.

Ingestion

May cause chemical burns in mouth and throat.

Skin Contact

May cause serious chemical burns to the skin.

Eye Contact

May cause blurred vision and serious eye damage.

Indication of any immediate medical attention and special treatment needed**Notes To The Physician**

No specific first aid measures noted.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

None known.

Hazardous combustion products

Oxygen. Corrosive gases/vapors/fumes of: Chlorine.

Protective Equipment For Fire-Fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire. Severe corrosive hazard. Wear chemical protection suits.

6. ACCIDENTAL RELEASE MEASURES

CPS HAZE REMOVER LIQUID

Personal Precautions

Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this material safety data sheet. In case of spills, beware of slippery floors and surfaces.

Environmental Precautions

Do not discharge onto the ground or into water courses.

Spill Clean Up Methods

Stop leak if possible without risk. DO NOT touch spilled material! Collect spillage with granulates, sawdust, rags or other absorbent. Flush with plenty of water to clean spillage area.

7. HANDLING AND STORAGE

Handling

Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Promptly remove any clothing that becomes wet. Wash promptly if skin becomes wet.

Storage

Store in tightly closed original container in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| COMPONENT | STD | TWA (8-hrs) | | STEL (15 min) | | Notes |
|------------------|-----|-------------|---------------------|---------------|---|----------------------|
| SODIUM HYDROXIDE | | | 2 mg/m ³ | | | C |
| SODIUM HYDROXIDE | PEL | - | 2 mg/m ³ | - | - | |
| COMPONENT | | | | | | IDLH |
| SODIUM HYDROXIDE | | | | | | 10 mg/m ³ |

Ceiling limit

Process Conditions

Provide eyewash, quick drench.

Engineering Measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of spray.

Respiratory Equipment

Respiratory protection not required. No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand Protection

Wear protective gloves. Butyl rubber gloves are recommended. Neoprene gloves are recommended. Nitrile gloves are recommended.

Eye Protection

Wear tight-fitting goggles or face shield.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------------|
| Appearance | Clear liquid. |
| Color | Yellow. |
| Odor | Chlorine. |
| Solubility | Soluble in water. |
| Initial boiling point and boiling range | 212 °F (100 °C) |
| Relative density | 1.12 g/ml @ 68 °F (20 °C) |
| pH-Value, Conc. Solution | 11 - 13 |
| Volatile Organic Compound (VOC) | ASTM D2369: 0 g/litre |

10. STABILITY AND REACTIVITY

Reactivity

Reacts violently with strong acids. Generates very toxic gas in contact with acid. Chlorine.

Stability

Stable under normal temperature conditions and recommended use.

Conditions To Avoid

Avoid excessive heat for prolonged periods of time.

CPS HAZE REMOVER LIQUID

Materials To Avoid

Strong acids.

11. TOXICOLOGICAL INFORMATION**Toxicological information**

No information available.

12. ECOLOGICAL INFORMATION**Toxicity**

Substantial amounts of the product may lead to a local change in acidity in small water systems which may have adverse effects on aquatic organisms. The product contains a substance which is toxic to aquatic organisms.

Degradability

The product is expected to be biodegradable.

Bioaccumulative potential

The product does not contain any substances expected to be bio-accumulating.

Mobility:

The product is miscible with water. May spread in water systems.

13. DISPOSAL CONSIDERATIONS**Waste Management**

Waste to be treated as hazardous waste. Dispose in accordance with federal, state and local environmental regulations.

Disposal Methods

Contact specialist disposal companies. Small quantities in an industrial wastewater stream are easily treated in biological treatment systems.

Waste Class

This product should be considered a hazardous waste under RCRA (corrosive waste, D002).

14. TRANSPORT INFORMATION

| | |
|--------------------------|---|
| UN No. (DOT/TDG) | 3266 |
| UN No. (IMDG) | 3266 |
| UN No. (ICAO) | 3266 |
| DOT Proper Shipping Name | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE SOLUTION) |
| TDG Proper Shipping Name | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE SOLUTION) |
| DOT Hazard Class | 8 |
| DOT Hazard Label | Corrosive |
| TDG Class | 8 |
| TDG Label(s) | 8 |
| IMDG Class | 8 |
| ICAO Class | 8 |
| Transport Labels | |



| | |
|-----------------|----|
| DOT Pack Group | II |
| IMDG Pack Group | II |
| Air Pack Group | II |

Environmentally Hazardous Substance/Marine Pollutant

CPS HAZE REMOVER LIQUID



EMS

F-A, S-B

15. REGULATORY INFORMATION

Regulatory Status (US)

This Product is Hazardous under the OSHA Hazard Communication Standard. This material is hazardous in many situations. Avoid mixing with ANY other chemicals except those approved in standard operating procedures. For a list of chemicals known to cause hazardous reactions with this material refer to the section: Hazardous Reactions.

US Federal Regulations

Federal Regulations Comments

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372. Sodium Hydroxide. Sodium Hypochlorite. TSCA: The ingredients of this product are on the TSCA Inventory.

US State Regulations

State Regulations Comments

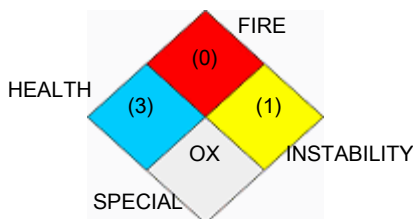
State and local regulations may apply.

16. OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

| | |
|---------------------|---|
| HEALTH | 3 |
| FLAMMABILITY | 0 |
| PHYSICAL | 1 |
| PERSONAL PROTECTION | C |

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



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Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.