

Material Safety Data Sheet

Material Name: Autohaze

ID: AUTO-013

*** Section 1 - Chemical Product and Company Identification ***

Product Use: To remove stains from printing mesh.

Synonyms: Haze remover

Manufacturer Information

Autotype Americas, Inc.
2050 Hammond Drive
Schaumburg, IL 60173

Phone: 847-303-5900

Emergency # 800-424-9300 (CHEMTREC)

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
1310-58-3	Potassium hydroxide	25-30
97-99-4	Tetrahydrofurfuryl alcohol	10-15

Component Information/Information on Non-Hazardous Components

This material is a controlled product under Canadian WHMIS regulations.

See Section 8 for applicable exposure limits. See Section 11 for applicable toxicity data.

*** Section 3 - Hazards Identification ***

Emergency Overview

WARNING CORROSIVE Product is a combustible grey paste with a solvent odor. Product is corrosive to tissue. Will cause severe irritation and burning to eyes, skin, and respiratory system.

Potential Health Effects: Eyes

This product is severely irritating to the eyes and may cause eye burns.

Potential Health Effects: Skin

This product is severely irritating to the skin and may cause burns.

Potential Health Effects: Ingestion

This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Potential Health Effects: Inhalation

This product is severely irritating to the respiratory system.

Medical Conditions Aggravated by Exposure

Preexisting eye, skin, or respiratory conditions will worsen with exposure to this product.

HMIS Ratings: Health: 3 Fire: 2 Physical Hazard: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Flush eyes immediately with large amounts of water. Continue to flush eyes while awaiting medical attention

First Aid: Skin

In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash contaminated clothing before reuse. Get medical attention or advice.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air. Seek immediate medical attention.

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*** Section 5 - Fire Fighting Measures ***

Flash Point: 84°C (183°F)

Upper Flammable Limit (UFL): 10%

Auto Ignition: 282°C (540°F)

Rate of Burning: Not determined

General Fire Hazards

This is a semi-solid material which will burn with a slow smoldering flame. Burning may produce thick, irritating smoke.

Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 3 Fire: 2 Instability: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop source of leak if possible. Dike the spilled material, where this is possible. Block any potential routes to water systems.

Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up. For small spills, flush area with water to dilute. For large spills, absorb with inert material. Shovel material into appropriate container for disposal. Neutralize the spilled material before disposal.

Evacuation Procedures

Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

Special Procedures

Follow all Local, State, Federal and Provincial regulations for disposal.

*** Section 7 - Handling and Storage ***

Handling Procedures

Do not get this material in your eyes, on your skin, or on your clothing. Wash thoroughly after handling.

Storage Procedures

Keep product in original container. Keep the container tightly closed and dry.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Potassium hydroxide (1310-58-3)

ACGIH: 2 mg/m3 Ceiling

OSHA: 2 mg/m3 Ceiling

NIOSH: 2 mg/m3 Ceiling

Engineering Controls

Eyewash fountains and emergency showers are recommended.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles; face shield (if splashing is possible).

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Personal Protective Equipment: Skin

Use impervious gloves. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Use of impervious apron and boots are recommended.

Personal Protective Equipment: Respiratory

If product is used in a way that would generate mists, vapors or fumes, proper respiratory personal protective equipment must be provided.

Personal Protective Equipment: General

No additional information available.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Grey paste with solvent odor.	Odor:	Solvent
Physical State:	Paste	pH:	12-14
Vapor Pressure:	Not determined	Vapor Density:	Not available
Boiling Point:	Not applicable	Melting Point:	As H2O
Solubility (H2O):	Dispersible	Specific Gravity:	Not available
Freezing Point:	As H2O	Viscosity:	1.42 g/cm @ 20°C

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

May react with water and incompatible materials.

Chemical Stability: Conditions to Avoid

Keep away from heat, ignition sources and incompatible materials. Avoid contact with water.

Incompatibility

Incompatible with acids, metals (aluminum and zinc), metal salts, oxidizing materials.

Hazardous Decomposition

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Polymerization

Will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

No additional information available.

B: Component Analysis - LD50/LC50

Potassium hydroxide (1310-58-3)

Oral LD50 Rat: 273 mg/kg

Tetrahydrofurfuryl alcohol (97-99-4)

Oral LD50 Rat: 1600 mg/kg; Oral LD50 Mouse: 2300 mg/kg

Carcinogenicity

A: General Product Information

No additional information available.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Potassium hydroxide (1310-58-3)

Test & Species

24 Hr LC50 mosquito fish

80.0 mg/L

Conditions

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Tetrahydrofurfuryl alcohol (97-99-4)

Test & Species

48 Hr LC50 harlequin fish

3400 mg/L

Conditions

Environmental Fate

No information available for the product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

If discarded, this product is considered a RCRA corrosive waste, D002.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Contains: Potassium hydroxide)

UN/NA #: UN3266 **Hazard Class:** 8 **Packing Group:** II

Required Label(s): CORROSIVE

Additional Info.: NOTE: The Reportable Quantity for potassium hydroxide is 1000 lbs (454 kg). For shipments in a single container exceeding the RQ for potassium hydroxide, the letters RQ must appear in the proper shipping name.

TDG Information

Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Contains: Potassium hydroxide)

UN/NA #: UN3266 **Hazard Class:** 8 **Packing Group:** II

Required Label(s): CORROSIVE

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information available.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Potassium hydroxide (1310-58-3)

CERCLA: 1000 lb final RQ; 454 kg final RQ

Canadian WHMIS Information

A: General Product Information

Workplace Hazardous Materials Information Systems (WHMIS): This product has been classified in accordance with the hazard criteria of the CPR (Controlled Product Regulations), and the MSDS contains all of the information required by the CPR.



WHMIS Class E: Corrosive material

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WHMIS Class B3: Combustible material

B: Component Analysis - WHMIS Ingredient Disclosure List (IDL)

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Potassium hydroxide	1310-58-3	1% (English Item 1335, French Item 996)
Tetrahydrofurfuryl alcohol	97-99-4	1% (English Item 1525, French Item 188)

C: Component Analysis

No information is available.

Additional Regulatory Information

A: General Product Information

No additional information available.

B: Component Analysis - Inventory

Component	CAS #	CAN	TSCA	EEC
Potassium hydroxide	1310-58-3	DSL	Yes	EINECS
Tetrahydrofurfuryl alcohol	97-99-4	DSL	Yes	EINECS

*** Section 16 - Other Information ***

Other Information

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

Key/Legend

ppm = parts per million; mg/m³ = milligrams per cubic meter of air; EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; HEPA = High Efficiency Particulate Air; IARC = International Agency for Research on Cancer; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; TLV = Threshold Limit Value; HMIS = Hazardous Materials Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act; WHMIS = Workplace Hazardous Material Information System.

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