

**SECTION 1 - IDENTIFICATION**

**Product identifier/Trade name:** RESISTOL STRIPPER

**Other means of identification:** STRI

**Recommended use:** Stripper for floor finishes

**Restriction on use:** For industrial, institutional and food plants use only.

**Initial supplier identifier:** Chemotec (PM) Inc.  
8820 Place Ray-Lawson  
Anjou, Quebec, Canada H1J 1Z2  
Phone: (514) 729-6321; 1-800-729-6321

**Emergency phone number:** (613) 996-6666 (CANUTEC)

**SECTION 2 - HAZARDS IDENTIFICATION****2a WHMIS 2015 - GHS (Globally Harmonized System) classification**

This product is classified as:

Skin Corrosion/Irritation — category 1

Serious eye damage/eye irritation — category 1

**2b Label elements**

**Pictogram**

**Precautionary statement**

**Do not breathe mists. Wash hands thoroughly after handling. Wear rubber gloves, protective clothing, eye or face protection.**

**IF SWALLOWED:** Rinse mouth. **DO NOT** induce vomiting. Immediately call a **POISON CENTER** or doctor.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a **POISON CENTER** or doctor.

**IF ON SKIN or hair:** Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a **POISON CENTER** or doctor. Wash contaminated clothing before reuse.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a **POISON CENTER** or doctor.

**Absorb spillage to prevent material-damage.**

**Storage:** Store locked up. Keep only in original packaging.

**Disposal:** Dispose of contents and container in accordance with local, provincial and federal regulations.

**Signal word:****Danger****Hazard statement****Causes severe skin burns and eye damage**

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| <b>SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS</b> |
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| Ingredients         | CAS #     | % (weight) | GHS CLASSIFICATION                                                                                                                                                         |
|---------------------|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monoethanolamine    | 141-43-5  | 10-30      | Oral toxicity, category 4;<br>Dermal toxicity, category 4<br>Inhalation toxicity, category 4<br>Eye damage/Irritation, category 1<br>Skin corrosion/Irritation, category 1 |
| Potassium hydroxide | 1310-58-3 | 0.1-1.0    | Skin Corrosion/Irritation Category 1A;<br>Eye damage/Irritation Category 1<br>Acute toxicity, oral Category 4.                                                             |
| Benzyl alcohol      | 100-51-6  | 1-5        | Acute toxicity, oral Category 4.<br>Acute toxicity, inhalation Category 4.                                                                                                 |

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| <b>SECTION 4 - FIRST AID MEASURES</b> |
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**4a Description of first aid measures****Eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Skin contact:**

Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

**Inhalation:**

Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

**Ingestion:**

Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor.

**4b Most important symptoms and effects**

**Eye:** Causes burns, irritation, redness, tears, burning sensation.

**Skin:** Causes burns and irritation which could be severe if not rinsed rapidly.

**Inhalation:** Causes burns and irritation of respiratory tract.

**Ingestion:** Causes irritation, burns, headache, abdominal pain, diarrhoea, nausea and vomiting.

**4c Immediate medical attention and special treatment needed**

Swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. No specific antidote. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination.

**SECTION 5 - FIRE FIGHTING MEASURES****5a Extinguishing media**

Suitable extinguishing media:

Water (if possible avoid powerful sprays), foam, dry chemicals, carbon dioxide. Product itself is not flammable.

Unsuitable extinguishing media:

None known.

**Specific hazards for product**

Hazardous combustion products:

Oxides of carbon, nitrogen, ammonia and other irritating gases.

**Special protective equipment and precautions for firefighters**

Special fire-fighting procedures/equipment:

During a fire, irritating smoke and fumes may be generated. A self-contained breathing apparatus is required for fire-fighting personnel to protect themselves from irritating products produced during the combustion. Move containers from fire area if it can be done without risk. A stream of water directed into the product generates a lot of foam.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES****6a Personal precautions, protective equipment and emergency procedures**

Personal protection:

Avoid contact with eyes and skin. Avoid breathing vapours. Use adequate aeration and ventilation. Wear gloves, waterproof boots, safety glasses and in case of a major spill and if necessary, wear a mask for organic vapours. Floor will be slippery in case of a spill.

**6b Methods and materials for containment and cleaning:**

Stop the leak. For large spills, pump the product into drums or clean up spills using absorbent material. Resume cleaning by rinsing with water. Caution: floors will be slippery.

**6c Environmental precautions:**

Do not let large quantities go to the sewers.

**SECTION 7 - HANDLING AND STORAGE****7a Precautions for safe handling:**

Avoid contact with eyes and skin. Avoid breathing vapours. Wear gloves, safety glasses and non-slippery footwear.

**7b Condition for safe storage:**

Store in a sealed container in a well-ventilated place. Do not store with food products. Keep from freezing.

**7c Special packaging materials:** none.

Avoid contact with acids and strong oxidizers.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8a Control parameters

|                                    | Ontario Time-weighted Average Limit (TWA) | Ontario Short-Term Exposure Limit (STEL) | Notations |
|------------------------------------|-------------------------------------------|------------------------------------------|-----------|
| Monoethanolamine                   | 3 ppm                                     | 6 ppm                                    |           |
| Dipropyleneglycol monomethyl ether | 100 ppm                                   | 150 ppm                                  | Skin      |
| Potassium hydroxide                |                                           | Ceiling limit 2 mg/m <sup>3</sup>        |           |

### 8b Engineering controls:

Good ventilation.

### 8c Individual protection measures

Respiratory Protection:

If exposure limits are exceeded, respirator for organic vapours.

Skin protection and other protective equipment:

Waterproof non-slippery boots. Rubber gloves.

Eye / face protection:

Safety glasses

General hygiene considerations:

**KEEP OUT OF REACH OF CHILDREN.** Avoid contact with eyes and skin. Avoid breathing vapours. Never eat, drink, or smoke in work areas. Good hygiene is recommended after use of this product.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and odour:**

Yellow liquid, lemon and solvent odour

**Odour threshold:**

Not available

**pH :**

Approximately 13

**Melting point and freezing point:**

Approximately 0 °C

**Boiling point:**

Approximately 100 °C

**Flash point:**

Greater than 93°C.

**Evaporation rate (n-BuAc =1):**

Not available

**Lower flammable limit (% by volume):**

Not available

**Upper flammable limit (% by volume):**

Not available.

**Explosion data - Sensitivity to mechanical impact:**

Not sensitive

**Explosion data - Sensitivity to static discharge:**

Not sensitive

**Vapour pressure (mm Hg)**

Not available

**Vapour density:**

Not available

**Specific gravity or density (water = 1 at 4 °C):**

1.02 g/cm<sup>3</sup> @ 20 °C

**Solubility in water:**

Miscible

**Partition coefficient – n-octanol/water:**

Not available

**Auto-ignition temperature:**

Not available

**Decomposition temperature**

Not available

**Viscosity:**

<100 cps @ 25 °C

## SECTION 10 - STABILITY AND REACTIVITY

**10a Reactivity:**

Not applicable when used as directed.

**10b Chemical stability :**

Stable at room temperature, in normal handling and storage conditions.

**10c Possibility of hazardous reactions:**

No polymerisation

**10d Conditions to avoid:**

Product may decompose at high temperatures.

**10e Incompatible materials**

Acids, strong oxidizers.

**10f Hazardous decomposition products:**

With oxidizers: oxides of carbon and nitrogen; with acids: heat, water vapour.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Eye:** Causes burns, irritation, redness, tears, burning sensation.

**Skin:** Causes burns, irritation which could be severe if not rinsed rapidly.

**Inhalation:** Causes burns, irritation of respiratory tract.

**Ingestion:** Causes burns, irritation, headache, abdominal pain, diarrhoea, nausea and vomiting.

**Carcinogenicity:**

No ingredient listed by IARC as a possible carcinogen.

**Teratogenicity, mutagenicity, other reproductive effects:** Not available

**Skin sensitization:** Ingredients not sensitizing

**Respiratory tract sensitization:** Not available

**Synergistic materials:** Not available

**Other important hazards:** Not available

**Toxicological data:** The calculated LD<sub>50</sub> for this product is greater than 6,000 mg/Kg, oral, rat; our products are not tested on animals.

| Ingredient          | LD <sub>50</sub> (route, species)                   | LC <sub>50</sub> # hours (species)          |
|---------------------|-----------------------------------------------------|---------------------------------------------|
| Monoethanolamine    | 1,089 mg/Kg (oral, rat)<br>2504 mg/Kg (dermal, rat) | Estimate LC50, 4H vapour,<br>rat >1.48 mg/L |
| Benzyl alcohol      | 1,612 mg/kg (oral, rat)                             | Not available                               |
| Potassium hydroxide | 333 mg/kg (oral, rat)                               | Not available                               |

For more details, refer to Section 3.

## SECTION 12 - ECOLOGICAL INFORMATION

**12a Ecotoxicity :**

| TOXICITY (Fish)     | Results                                  | Exposure time | Method        |
|---------------------|------------------------------------------|---------------|---------------|
| Monoethanolamine    | Cyprinus carpio (carpe)<br>LC50 349 mg/L | 96H           | Not available |
| Benzyl alcohol      | 460 mg/L                                 | 96H           | Not available |
| Potassium hydroxide | Gambusia affinis 80 mg/L                 | 96H           | Not available |

| TOXICITY (Daphnia)  | Results         | Exposure time | Method        |
|---------------------|-----------------|---------------|---------------|
| Monoethanolamine    | EC50 = 120 mg/L | 24H           | Not available |
| Benzyl alcohol      | EC50 = 230 mg/L | 48H           | Not available |
| Potassium hydroxide | Not available   |               |               |

| TOXICITY (Algae)    | Results                               | Exposure time | Method        |
|---------------------|---------------------------------------|---------------|---------------|
| Monoethanolamine    | Selenastrum capricornutum<br>2.8 mg/l | 72H           | Not available |
| Benzyl alcohol      | EC50 500-770 mg/L                     | 72H           | Not available |
| Potassium hydroxide | Not available                         |               |               |

**12b Persistence and degradability:** Product is readily biodegradable

**12c Bioaccumulation potential:** Not available

**12d Mobility in soil:** There is no test data on this product.

**12e Other adverse effect** No applicable information found

### SECTION 13 - DISPOSAL CONSIDERATIONS

Eliminate according to federal, provincial and local regulations.

### SECTION 14 - TRANSPORTATION INFORMATION

#### Transportation of Dangerous Goods (TDG) in Canada :

|                        |                                                          |
|------------------------|----------------------------------------------------------|
| UN number              | UN3267                                                   |
| Proper shipping name:  | CORROSIVE LIQUID BASIC, ORGANIC,<br>N.O.S.(Ethanolamine) |
| Class:                 | 8                                                        |
| Identification number: | UN3267                                                   |
| Packing group:         | III                                                      |
| Special case:          | Not applicable                                           |

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| <b>SECTION 15 - REGULATORY INFORMATION</b> |
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**In Canada****WHMIS information:**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and this safety data sheet (SDS) contains all the information required by the HPR.

**WHMIS Classification:** See section 2a

**CEPA information:** Ingredients are listed on the DSL inventory.

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| <b>SECTION 16 - OTHER INFORMATION</b> |
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**Date of latest revision** 2016-05-03

**References:**

1. Manufacturer'/suppliers' MSDS.
2. Occupational Exposure Limits for Ontario Workplaces required under Regulation 833
3. International Agency for Research on Cancer Monographs
4. The European Chemicals Agency (ECHA) website.

**Abbreviations:**

|       |                                                           |
|-------|-----------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS   | Chemical Abstract Service                                 |
| CEPA  | Canadian Environmental Protection Act                     |
| cps   | Centipoises                                               |
| DSL   | Domestic Substance List                                   |
| HMIS  | Hazardous Material Information System                     |
| IARC  | International Agency for Research on Cancer               |
| LC    | Lethal concentration                                      |
| LD    | Lethal Dosage                                             |
| N/Av  | Not available                                             |
| N/Ap  | Not Applicable                                            |
| NFPA  | National Fire Protection Association                      |
| NIOSH | National Institute for Occupational Safety and Health     |
| NTP   | National Toxicology Program (U.S.A.)                      |
| OSHA  | Occupational Safety and Health Administration (U.S.A.)    |
| PEL   | Permissible Exposure Limit                                |
| TLV   | Threshold Limit Value                                     |
| WHMIS | Workplace Hazardous Materials Information System          |

End of the MSDS