Material Safety Data Sheet

Section 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name / Trade name</th>
<th>Gun Wash</th>
<th>Associated Product's Item Code</th>
<th>13-388</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonym</td>
<td>Not available.</td>
<td>CAS #</td>
<td>Mixture.</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>Mixture. (Solvent.)</td>
<td>DSL</td>
<td>CEPA DSL: Toluene; Methanol; 2-butanone</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>Not applicable.</td>
<td>Validation Date</td>
<td>11/04/2004.</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Recochem Inc. 850 Montee de Liesse Montreal, Quebec 514-341-3550</td>
<td>Print Date</td>
<td>11/04/2004.</td>
</tr>
<tr>
<td>Material Uses</td>
<td>Consumer products: For cleaning spray guns, brushes, rollers, etc.</td>
<td>In Case of Emergency</td>
<td>Recochem Inc. Communications and Regulatory Affairs Department (905) 791-1788</td>
</tr>
</tbody>
</table>

Section 2. Hazardous Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Toluene</td>
<td>108-88-3</td>
<td>50-60</td>
<td>ACGIH (Canada, 1999). Skin TWA: 50 ppm TWA: 188 mg/m²</td>
</tr>
<tr>
<td>2) Methanol</td>
<td>67-56-1</td>
<td>40-50</td>
<td>ACGIH (Canada, 1999). Skin TWA: 200 ppm STEL: 250 ppm TWA: 262 mg/m² STEL: 328 mg/m²</td>
</tr>
<tr>
<td>3) Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>1-5</td>
<td>ACGIH (Canada, 1999). TWA: 200 ppm STEL: 300 ppm TWA: 590 mg/m² STEL: 885 mg/m²</td>
</tr>
</tbody>
</table>

Section 3. Emergency Overview

Hazard Overview: DANGER! POISON.
EXTREMELY FLAMMABLE LIQUID AND VAPOUR, VAPOUR MAY CAUSE FLASH FIRE. May be fatal or cause blindness if swallowed. Vapour harmful.
Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid prolonged contact with eyes, skin, and clothing. DO NOT ingest. Avoid breathing vapour or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Aspiration hazard if swallowed- can enter lungs and cause damage.

Potential Acute Health Effects: Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation. Prolonged inhalation exposure can lead to central nervous system (CNS) depression.

Note to Physician: Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possible death.

This product contains methanol.

Acute exposure to methanol, either through ingestion or breathing high airborne concentrations can result in symptoms appearing between 40 minutes and 72 hours after exposure. Symptoms and signs are usually limited to CNS, eyes and gastrointestinal tract. Because of the initial CNS’s effects of headache, vertigo, lethargy and confusion, there may be an impression of ethanol intoxication. Blurred vision, decreased acuity and photophobia are common complaints. Treatment with ipecac or lavage is indicated in any patient presenting within two hours of ingestion. A profound metabolic acidosis occurs in severe poisoning and serum bicarbonate levels are a more accurate measure of severity than serum methanol levels. Treatment protocols are available from most major hospitals and early collaboration with appropriate hospitals is recommended.

This product contains Toluene, a known central nervous system (CNS) depressant. Handle situation of misuse accordingly.

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## Section 4. First Aid Measures

<table>
<thead>
<tr>
<th>Type</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye Contact</strong></td>
<td>IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.</td>
</tr>
<tr>
<td><strong>Skin Contact</strong></td>
<td>Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Allow the victim to rest in a well-ventilated area. If irritation persists, seek medical attention.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>DO NOT induce vomiting. If affected person is conscious give plenty of water to drink. NEVER give an unconscious person anything to ingest. If vomiting occurs, keep head lower than hips to help prevent aspiration. SEEK IMMEDIATE MEDICAL ATTENTION.</td>
</tr>
</tbody>
</table>

## Section 5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>Products of Combustion</th>
<th>These products are carbon oxides (CO, CO₂).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Fighting Media</td>
<td>Flammable liquid, insoluble in water.</td>
</tr>
<tr>
<td>Fire Fighting Instructions</td>
<td>SMALL FIRE: Use DRY chemicals, CO₂, alcohol resistant foam or water spray. LARGE FIRE: Use water spray or fog.</td>
</tr>
<tr>
<td>Fire Hazards</td>
<td>Vapour may travel considerable distance to source of ignition and flash back.</td>
</tr>
<tr>
<td>Explosion Hazards</td>
<td>Vapours may travel along ground and flashback along vapour trail.</td>
</tr>
</tbody>
</table>

## Section 6. Accidental Release Measures

<table>
<thead>
<tr>
<th>Small Spill and Leak</th>
<th>Absorb with an inert material and put the spilled material in an appropriate waste disposal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Spill and Leak</td>
<td>Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Place in appropriate container and dispose of in accordance with regional regulations.</td>
</tr>
</tbody>
</table>

## Section 7. Handling and Storage

| Handling | Handle and open container with care. Keep away from sources of ignition. After handling, always wash hands thoroughly with soap and water. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. |
| Storage  | Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 38°C (100.4°F). |

## Section 8. Exposure Controls, Personal Protection

| Engineering Controls | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location. |
| Personal Protection  |                                                                                                                      |
| **Eyes**             | Splash goggles.                                                                                                     |
| **Body**             | No special protective clothing is required.                                                                           |
| **Respiratory**      | Organic vapour cartridge respirator.                                                                                  |
| **Hands**            | Gloves (impervious).                                                                                                |

## Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State and Appearance</th>
<th>Odor</th>
<th>Molecular Weight</th>
<th>pH (1% Soln/Water)</th>
<th>pKₐ (1% Soln/Water)</th>
<th>Boiling/Condensation Point</th>
<th>Melting/Freezing Point</th>
<th>Specific Gravity</th>
<th>Vapor Pressure</th>
<th>Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Characteristic</td>
<td>Not applicable</td>
<td>Not available</td>
<td>-</td>
<td>The lowest known value is 64.5°C (148.1°F) (Methanol). Weighted average: 89.22°C (192.6°F)</td>
<td>May start to solidify at -86°C (-122.8°F) based on data for: 2-butane. Weighted average: -93.95°C (-137.1°F)</td>
<td>0.8 to 0.82 (Water = 1)</td>
<td>The highest known value is 24 kPa (@ 20°C) (2-propanone). Weighted average: 5.93 kPa (@ 20°C)</td>
<td>Dynamic: The highest known value is 0.59 cP (Toluene) Weighted average: 0.58 cP</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
<td>Colorless</td>
<td>Taste</td>
<td>Volatility</td>
<td>Evaporation Rate</td>
<td>Odor Threshold</td>
<td>Viscosity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taste</td>
<td>Not available</td>
<td>Colorless</td>
<td>Odor</td>
<td>100% (w/w).</td>
<td>The highest known value is 5.6 (2-propanone) Weighted average: 2.5 compared to Butyl acetate.</td>
<td>The highest known value is 2000 ppm (Methanol) Weighted average: 259.82 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td></td>
<td></td>
<td>Threshold</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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The highest known value is 3.1 (Air = 1) (Toluene). Weighted average: 2.74 (Air = 1) (Air = 1).

Easily soluble in methanol, diethyl ether, n-octanol, acetone. Insoluble in water.

810 to 860 (g/l).

The greatest known range is LOWER: 6% UPPER: 36% (Methanol) CLOSED CUP: -2°C (28.4°F) (Tagliabue)

The lowest known value is 385°C (725°F) (Methanol).

Flammable.

Non-flammable in presence of shocks.

The product is:

Stable.

Reactive with oxidizing agents, acids.

Section 10. Stability and Reactivity

Stability
Not available.

Conditions of Instability
Not available.

Incompatibility with Various Substances
Reactive with oxidizing agents, acids.

Section 11. Toxicological Information

Routes of Entry
Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals
Acute oral toxicity (LD50): 2600 mg/kg [Rat.]. (Toluene)
Acute dermal toxicity (LD50): >5000 mg/kg [Rabbit.]. (2-butanone)

Eye
Hazardous in case of eye contact (irritant).

Skin
Hazardous in case of skin contact (irritant, permeator). Can cause dermatitis. Skin inflammation is characterized by itching, scaling, reddening or occasionally, blistering.

Inhalation
Hazardous in case of inhalation. Prolonged inhalation exposure can lead to central nervous system (CNS) depression.

Ingestion
Hazardous in case of ingestion. May be fatal or cause blindness if swallowed. Aspiration hazard if swallowed- can enter lungs and cause damage.

Chronic Effects on Humans
Hazardous in case of skin contact (irritant, permeator), of ingestion. Skin irritation caused by chronic skin exposure can lead to sensitivity to temperature and increased susceptibility to allergens.

CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [Toluene]. Classified A4 (Not classifiable for human or animal.) by ACGIH, D (Not classifiable for human or animal.) by EPA [2-butanone]. Classified A5 (Not suspected for human.) by IARCC. None. by OSHA [Methanol].

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Teratogenic in mice at levels below maternal toxicity.

DEVELOPMENTAL TOXICITY: Fetotoxic in mice at levels below maternal toxicity.

The substance may be toxic to central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage.

Section 12. Ecological Information

Ecotoxicity
Not available.

Section 13. Disposal Considerations

Waste Information
Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Section 14. Transport Information

**TDG Classification (Canada)**
- Class 3: Flammable liquid.

**PIN (Canada)**
- Shipping name: Paint related material
- UNNA: UN 1263
- PG: II

**Special Provisions for Transport (Canada)**
- In plastic containers of 500 ml or metal containers of 1 L capacity or less this product is classified as a “Consumer Commodity” under TDG regulations.

**IMDG Classification**
- 3.2

**PIN**
- Shipping name: Paint related material
- UNNA: UN 1263
- PG: II

**Marine Pollutant**
- Not pollutant.

**DOT Classification (U.S.A)**
- Class 3: Flammable liquid.

**PIN**
- Paint related material
- 3
- UN 1263
- II
- Not pollutant.

**Special Provisions for Transport (U.S.)**
- Containers of 1 L or less ship as:
  - Class: ORM-D
  - Name: Consumer Commodity

Section 15. Other Regulatory Information and Pictograms

**WHMIS Classification (Canada)**
- CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).
- Class D-1B: Material causing immediate and serious toxic effects (TOXIC).
- Class D-2A: Material causing other toxic effects (VERY TOXIC).
- Class D-2B: Material causing other toxic effects (TOXIC).

**HCS Classification (U.S.A.)**
- Class: Flammable liquid having a flash point lower than 37.8°C (100°F).
- Class: Toxic.
- Class: Irritating substance.
- Class: Target organ effects.

**USA Regulatory Lists**
- TSCA inventory: Toluene; Methanol; 2-butanone

**Hazardous Material Information System (U.S.A.)**
- Health: 2
- Flammability: 3
- Reactivity: 0
- Personal Protection: G

**National Fire Protection Association (U.S.A.)**

Section 16. Other Information


Notice to Reader
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.