

# Material Safety Data Sheet

Product Name: Pine Detergent Code: 1400

|   |   |   |
|---|---|---|
| <b>WHMIS</b>  | <b>Protective Clothing</b>  | <b>TDG Road / Rail</b>  |
|  |  |  |

## SECTION I – PRODUCT IDENTIFICATION AND PREPERATION INFORMATION

**Product Name:** Pine Detergent **Effective Date:** Sep. 7, 06 **Code:** 1400  
**Product Use:** Not available  
**WHMIS:** WHMIS Class D-2B: Material causing other toxic effects (TOXIC)  
**TDG:** Not regulated under TDG (Canada).

**Supplier:** **Formula Canada**  
 3069 Dundas Street West  
 Toronto, Ontario M6P 1Z5  
 (416) 743-6660

**EMERGENCY PHONE: CANUTEC (613) 996-6666**

## SECTION II – HAZARDOUS INGREDIENTS

| Ingredients                 | CAS #     | Wt%  | ACGIH-TLV  | LC <sub>50</sub> /LD <sub>50</sub>   |
|-----------------------------|-----------|------|--|--|
| Caustic Potash 45% Solution | 1310-58-3 | 1-5  | Not available.   | Not available  |
| Pine Oil 140                | 008002093 | 5-10 | Not available.   | ORAL (LD <sub>50</sub> ): Acute:<br>2640 mg/kg (Rat)   |
| Isopropyl alcohol           | 67-63-0   | 5-10 | TWA: 400 CEIL: 500 (ppm)<br>TWA: 900 CEIL: 1225 (mg/m <sup>3</sup> ) | ORAL (LD <sub>50</sub> ): Acute:<br>3600 mg/kg (Mouse)<br>VAPOR (LC <sub>50</sub> ): Acute:<br>16970 ppm 4 hours<br>(Rat). |

## SECTION III – PHYSICAL DATA

|                              |   |                          |  |
|------------------------------|---|--------------------------|--|
| <b>Boiling Point:</b>        | 100°C (212°F).  | <b>Specific Gravity:</b> | Weighted average: 1.03<br>(Water = 1.00)   |
| <b>Vapour Pressure:</b>      | The highest known value is 33 mm of Hg (@ 20°C) (Isopropyl alcohol).<br>Weighted average: 17.02 mm of Hg (@ 20°C) | <b>Vapour Density:</b>   | The highest known value is 5 (Air=1) (Pine oil). Weighted average: 3.29 (Air=1). |
| <b>Solubility in Water:</b>  | Soluble   | <b>Percent Volatile:</b> | Not available.   |
| <b>Physical State:</b>       | Liquid  | <b>Evaporation Rate:</b> | Not available.   |
| <b>Appearance and Odour:</b> | Clear Green / Pine.   | <b>pH (as supplied):</b> | 10.5 Basic.  |

## SECTION IV – FIRE AND EXPLOSION DATA

|                                       |  |
|---------------------------------------|--|
| <b>Flammability:</b>                  | Non-combustible.   |
| <b>Flash Points:</b>                  | The lowest known value is CLOSED CUP: 11.6oC (53oF). OPEN CUP: 18.3oC (64.9oF) Cleveland. (Isopropyl alcohol)                      |
| <b>Flammable Limits:</b>              | The greatest known range is LOWER 2% UPPER 12% (Isopropyl alcohol).  |
| <b>Hazardous Combustion Products:</b> | These products are carbon oxides (CO, CO <sub>2</sub> ). Some metallic oxides.   |
| <b>Means of Extinction:</b>           | SMALL FIRE: Use DRY chemicals, CO <sub>2</sub> , alcohol foam or water spray.<br>LARGE FIRE: Use alcohol foam, water spray or fog. |
| <b>Special Fire Hazards:</b>          | No explosive sensitivity.  |

Continued...

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## SECTION V – REACTIVITY DATA

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|--|--|
| <b>Stability:</b>                        | The product is stable  |
| <b>Incompatibility:</b>                  | Reactive with oxidizing agents, acids. Non-reactive with metals. |
| <b>Hazardous Decomposition Products:</b> | Not known to use at this time.                                   |

## SECTION VI – TOXICOLOGICAL PROPERTIES

|                                   |   |
|-----------------------------------|---|
| <b>Routes of Entry:</b>           | Absorbed through skin. Ingestion.   |
| <b>Acute Effects on Humans:</b>   | Hazardous in case of skin contact (sensitizer, permeator), of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Severe over-exposure can result in death.   |
| <b>Chronic Effects on Humans:</b> | CARCINOGENIC: Not available.<br>MUTAGENIC EFFECTS: Not available.<br>TERATOGENIC EFFECTS: Not available.<br>DEVELOPMENTAL TOXICITY: PROVEN (Isopropyl alcohol) – The substance is toxic to gastro-intestinal tract, upper respiratory tract, the reproductive system.<br>Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. |
| <b>Synergistic Materials:</b>     | Not available.  |

## SECTION VII – PREVENTATIVE MEASURES

|                                    |   |
|------------------------------------|---|
| <b>Gloves:</b>                     | Seamless neoprene gloves.   |
| <b>Eye Protection:</b>             | Splash goggles.   |
| <b>Respiratory Protection:</b>     | General ventilation normally adequate. Respiratory protection normally required.  |
| <b>Other Protective Equipment:</b> | Other protective equipment as required by employer code.  |
| <b>Engineering Controls:</b>       | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the workstation location.  |
| <b>Leak and Spill Procedure:</b>   | Dilute with water and mop up, or absorb with an inert material and put the spilled material in an appropriate waste disposal. If necessary, Neutralize the residue with a dilute solution of acetic acid. Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside container. DO NOT touch spilled material. Use water spray curtain to divert vapour drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities. |
| <b>Waste Disposal:</b>             | Consult municipal, provincial, and federal laws.  |
| <b>Storage Requirements:</b>       | Keep container tightly closed. Keep from freezing. Keep in a cool, well-ventilated place. Keep out of reach of children.  |

## SECTION VIII – FIRST AID

|                    |  |
|--------------------|--|
| <b>Eye:</b>        | In case of contact with eyes, rinse immediately with plenty of water for 15 minutes. Finish by rinsing thoroughly with running water to avoid a possible infection. If irritation persists, seek medical attention.  |
| <b>Skin:</b>       | Rinse skin with clean water. If irritation persists, seek medical attention.   |
| <b>Inhalation:</b> | Allow the victim to rest in a well-ventilated area. Seek medical attention.  |
| <b>Ingestion:</b>  | DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention. |

## SECTION IX – PREPERATION / OTHER INFORMATION

|                            |                       |
|----------------------------|-----------------------|
| <b>References:</b>         | Not available.        |
| <b>Additional Remarks:</b> | No additional remark. |

Validated by Formula Canada on September 7, 2006

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