




# Material Safety Data Sheet

Product Name: HD Alkaline Cleaner Code: 1500

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

## SECTION I – PRODUCT IDENTIFICATION AND PREPERATION INFORMATION

**Product Name:** HD Alkaline Cleaner **Effective Date:** Sep. 7, 06 **Code:** 1500  
**Product Use:** Cleaner, degreaser  
**WHMIS:** WHMIS Class D-2B: Material causing other toxic effects (TOXIC).  
 WHMIS Class E: Corrosive liquid.  
**TDG:** TDG CLASS 8: CORROSIVE LIQUID.  
 TDG CLASS 9.2: Environmentally hazardous material.  
 Shipping name: Potassium Hydroxide Solution CLASS 8(9.2) UN:1814 PK GR: II  
**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>
Potassium Hydroxide	1310-58-3	6-15	Not available.	ORAL (LD <sub>50</sub> ): Acute: 365 mg/kg (Rat).
Gluconic Acid	526-95-4	1-5	Not Available.	Not Available.

## SECTION III – PHYSICAL DATA

<b>Boiling Point:</b>	100°C (212°F)	<b>Specific Gravity:</b>	Weighted average: 1.15 (Water = 1.00)
<b>Vapour Pressure:</b>	Not Available.	<b>Vapour Density:</b>	Not Available.
<b>Solubility in Water:</b>	Complete	<b>Percent Volatile:</b>	Not available.
<b>Physical State:</b>	Liquid	<b>Evaporation Rate:</b>	Not available.
<b>Appearance and Odour:</b>	Dark Reddish Brown / Bland fragrance.	<b>pH (as supplied):</b>	13 to 13.5 Basic

## SECTION IV – FIRE AND EXPLOSION DATA

<b>Flammability:</b>	Non-flammable
<b>Flash Points:</b>	Not applicable.
<b>Flammable Limits:</b>	Not applicable.
<b>Hazardous Combustion Products:</b>	Not applicable.
<b>Means of Extinction:</b>	Use extinguishing media suitable for surrounding materials.
<b>Special Fire Hazards:</b>	Not available.

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## SECTION V – REACTIVITY DATA

<b>Stability:</b>	The product is stable
<b>Incompatibility:</b>	Highly reactive with acids. Reactive with oxidizing agents. Slightly reactive with reducing agents and metals. Non-reactive with organic materials, alkalis, moisture.
<b>Hazardous Decomposition Products:</b>	Not available.

## SECTION VI – TOXICOLOGICAL PROPERTIES

<b>Routes of Entry:</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Acute Effects on Humans:</b>	Very hazardous in case of eye contact (irritant), of skin contact (irritant) of ingestion. Slightly hazardous in case of inhalation. Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching.
<b>Chronic Effects on Humans:</b>	CARCINOGENIC: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not toxic. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. 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.
<b>Eye Protection:</b>	Splash goggles.
<b>Respiratory Protection:</b>	Not normally required when used as directed and if there is good ventilation maintained.
<b>Other Protective Equipment:</b>	Suggested protective clothing may not be sufficient, consult a specialist BEFORE handling this product.
<b>Engineering Controls:</b>	General ventilation normally adequate. 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. Avoid contact with skin and eyes. Keep out of reach of children.

## SECTION VIII – FIRST AID

<b>Eye:</b>	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use any eye ointment. Seek medical attention.
<b>Skin:</b>	If the chemical is on clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases, and groin. COLD water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
<b>Inhalation:</b>	Allow the victim to rest in a well-ventilated area. Seek medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting. Drink three glasses cold water. 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.

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## SECTION IX – PREPERATION / OTHER INFORMATION

**References:** Not available.

**Additional Remarks:** No additional remark.

Validated by Formula Canada on September 7, 2006

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