

**Heavy Duty Degreaser****DESCRIPTION**

**Coast 309** is a highly concentrated degreaser specially formulated to emulsify heavy oil and grease deposits. **Coast 309** is the perfect solution for cleaning engine parts, vehicle maintenance floors, machine shop floors, underground parking lots and asphalt floors. **Coast 309** also works well in food processing plants for cleaning and degreasing floor, warehouse and storage areas.

Even though it's a heavy duty formula and aggressively tackles grease build-up, **Coast 309** will not harm industrial painted surfaces when used as directed and is a low foaming product that can be used in pre-soak foaming arches and automatic scrubbers. **Coast 309** is also excellent for transportation equipment maintenance and locomotive cleaning where carbon dust residue is difficult to remove. This free rinsing product does not have offensive fumes and will save you money by working quickly at effective dilution ratios to penetrate oily and greasy soils.

**SPECIAL INFORMATION**

**Coast 309** is a Canadian Food Inspection Agency (CFIA) approved product for use in registered food processing plants. Surfaces in direct food contact must be rinsed with potable water.

**DIRECTIONS*****Heavy duty grease and oil build-up:***

Apply undiluted **Coast 309**.

***Mild grease and oil build-up:***

Use 26-42 oz per US gallon of water (200-325 ml/litre) (1:3-5).

***Pre-soak foaming arch:***

Use 6.5 oz per US gallon of water (50 ml/litre) (1:20).

***Automatic scrubbers and Pail and brush cleaning:***

Use 1 - 2 oz per US gallon of water (8-16 ml/litre) (1:64-1:128).

**PHYSICAL DATA**

Appearance	Liquid
Color	Water white
Foam	Low
Odor	Mild
pH (5.6%)	11.5 -12.5

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **COAST 309**

WHMIS CODE: E

### HMIS

Product Use: *Floor cleaner & degreaser.*

Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION

Hazard Class: Class 8, PG III

UN Number: UN 1814

3	Health
0	Flammability
0	Reactivity
C	Personal

M-chem Technologies Inc.  
1607 Derwent Way  
Delta, BC V3M 6K8, Canada  
Phone: (604) 526-5655

### EMERGENCY PHONE

Canada: Canutec 613-996-6666

U.S.A.: Chemtrec 800-424-9300

A=Goggles, B=Goggles & Gloves  
C=Goggles, Gloves and Apron

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

## SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
<b>POTASSIUM HYDROXIDE</b>	1310-58-3	3.0 – 6.0	N/A	2 ppm
LD50 (oral rat)	273 mg/kg			
LD50 (dermal)	Not Available			
LC50	Not Available			
<b>SODIUM SILICATE</b>	1344-09-8	5.0-10.0	N/D	N/D
LD50 (oral rat)	1153 mg/kg			
LD50 (dermal)	No Data			
LC50	No Data			

## SECTION 3 – PHYSICAL DATA

**Color and Odor:** Clear pale yellow, mild odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 13.0 – 14.0  
**Physical State:** Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.099 @ 20°C  
**Coeff. Water/Oil Dist:** Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

## SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

**Flash Point and Method:** None to 100°C (TCC) **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.  
**Flammable Limits:** None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.  
**Conditions of Flammability:** None.  
**Unusual Fire and Explosion Hazards:** Flammable hydrogen gas may liberate upon prolonged contact with sensitive metals (i.e. aluminum, zinc, etc.).  
**Hazardous Combustion Products:** Oxides of carbon, phosphorus, and other unidentifiable organic compounds.  
**Special Fire Fighting:** Wear full protective equipment, including a NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.

## SECTION 5 – REACTIVITY DATA

**Chemical Stability:** Stable under normal storage conditions. **Hazardous Polymerization:** Will not Occur.  
**Incompatibility (material to avoid):** Strong oxidizers and acids.  
**Hazardous Decomposition Products:** Oxides of carbon, phosphorus, and other unidentifiable organic compounds.

## SECTION 6 – TOXICOLOGICAL DATA

**Exposure Limits:** See Section 2 under Hazardous Ingredient. **Teratogenicity:** None known.  
**Routes of Entry:** skin and eye contact, skin absorption and inhalation. **Sensitization:** None known.  
**Irritancy of Product:** Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** None known.  
**Name of Toxicological Synergistic Product:** None known. **Mutagenicity:** None known.  
**Reproductive Toxicity:** None known.  
**Effects of Chronic Exposure:** Prolonged or repeated exposure may cause skin irritation or dermatitis.  
**Effects of Acute Exposure to Product:** Product exposure may burn eyes and irritate or burn skin. Prolonged inhalation of vapors or mists may cause breathing problems, headaches and nausea. Also, may be harmful if absorbed through skin. Ingestion may cause gastro-intestinal and abdominal discomfort, and symptoms similar to inhalation.

## SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

**Respiratory Protection:** If product is misted or sprayed, or used in a confined area, use a NIOSH/MSHA approved dust/mist respirator.  
**Ventilation:** Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.  
**Protective Gloves:** Natural or butyl rubber, nitrile or neoprene gloves.  
**Eye Protection:** Chemical goggles, safety goggles or face shield.  
**Protective Clothing and Equipment:** Long sleeve coveralls. Eye wash recommended in the immediate work area.  
**Storage and Handling Procedures:** Use good industrial hygiene. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. Store at temperatures below 30°C (86°F) and keep from freezing.  
**Disposal Procedures for Spills or Leaks:** Wear protective equipment. Dike and contain large spills. Pump spills into an approved waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and out of natural waters.  
**Waste Disposal Method:** Reuse if possible, or otherwise dispose recovered material in accordance with all local, Provincial or Federal Regulations.  
**Special Shipping Information:** Store at temperatures below 30°C (86°F) and keep from freezing.

## SECTION 8 – EMERGENCY FIRST AID PROCEDURES

**First Aid:** If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

## PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division

PHONE: 604-526-5655

LAST UPDATE: 07/04/11

THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE