



Coast 102

Heavy Duty Cleaner

DESCRIPTION

Coast 102 is a heavy duty industrial liquid cleaner which removes road film from painted surfaces and steam cleans or high pressure washes away grease and oils. **Coast 102** is used in the maintenance and overhaul shops of railroads, transportation and equipment companies, forestry and mining industries.

SPECIAL INFORMATION

Coast 102 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

For road film removal:

Apply **Coast 102** full strength at low pressure to painted surfaces. Allow contact time up to 2 minutes followed by a high pressure hot water rinse (500 psi or greater).

For steam cleaning:

Use 1 part **Coast 102** to 100 parts water (1.5 oz per US gallon) (10 mL per litre) at the gun head. The effluent from any cleaning operation should be neutralized to a pH of 7 to 10. High concentrations could attack paint. Face shields, gloves and protective clothing should be worn.

PHYSICAL DATA

Appearance	Liquid
Color	Water white
Foam	Low
Odor	Mild
pH (3.1%)	12.0 - 12.6

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **COAST 102**

WHMIS CODE: E
 Proper Shipping Name: CORROSIVE LIQUID, N.O.S.
 (potassium hydroxide)
 Hazard Class: 8, PG III
 UN Number: 1760

Product Use: *Heavy duty liquid cleaner.*

HMIS	
3	Health
0	Flammability
0	Reactivity
B	Personal

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 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
TETRAPOTASSIUM PYROPHOSPHATE	7320-34-5	1.0-5.0	No Data	No Data
LD50 (oral rat) 2980 mg/kg				
LD50 (dermal) 7940 mg/kg (rabbit)				
LC50 Not Available				
SODIUM METASILICATE	6834-92-0	1.0-5.0	N/A	No Data
LD50 (oral rat) 1153 mg/kg				
LD50 (dermal) No Data				
LC50 No Data				
POTASSIUM HYDROXIDE	1310-58-3	1.0-5.0	N/A	2 ppm
LD50 (oral rat) 273 mg/kg				
LD50 (dermal) Not Available				
LC50 Not Available				
ALCOHOL ETHOXYLATE	68439-46-3	1.0-5.0	N/A	N/A
LD50 (oral rat) 1376 mg/kg				
LD50 (dermal rabbit) >2 g/kg				

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear, mild odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 13.5 +/- 0.5
Physical State: Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.07 @ 20°C
Coef. 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: None known.
Hazardous Combustion Products: Decomposition may produce oxides of carbon, nitrogen and phosphorus upon thermal decomposition 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, nitrogen and phosphorus upon thermal decomposition and other unidentifiable organic compounds.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eyes, inhalation.
Irritancy of Product: Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** None known.
Sensitization: None known. **Mutagenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Reproductive Toxicity:** None known.
Teratogenicity: None known.
Effects of Chronic Exposure: Prolonged or repeated exposure may cause skin irritation or dermatitis, respiratory disorder.
Effects of Acute Exposure to Product: Product exposure may burn eyes and irritate or burn skin. Inhaling vapors or mists may cause respiratory discomfort such as breathing problems, burning, coughing, etc. Ingestion may cause gastrointestinal and abdominal discomfort.

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 30oC (86oF) 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 30oC (86oF) 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

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LAST UPDATE: Dec. 15, 2014

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