

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification	
Product Name	Paratene® M361
Chemical Family	Acid Cleaner Solution
Chemical Formula	Not available - Proprietary Mixture
Manufacturer/Supplier	Clean Harbors Energy & Industrial Services Corp. 15715 121A Avenue Edmonton, AB T5V 1B1
Telephone Number	403-216-2130
Emergency Assistance	403-216-2130

Section 2 - Hazards Identification	
Primary routes of exposure: Eyes, Skin, Inhalation, Ingestion	
Eye Contact	Vapour can be irritating, but will not injure eye tissue. Liquid can cause severe irritation, reddening, swelling and corneal burns.
Skin Contact	Frequent or prolonged contact may irritate the skin. Low toxicity. Brief contact with the liquid will not result in significant irritation unless vapourization is prevented.
Inhalation	High vapour/aerosol concentrations (greater than approximately 1000ppm) are irritating to the eyes and the respiratory tract. Negligible hazard at normal temperatures (up to 38 degrees Celsius).
Ingestion	Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death.

Section 3 - Composition Information on Ingredients				
Hazardous Ingredients	CAS #	Wt. %	OSHA, PEL	ACGIH, TLV
Phosphoric acid	7664-38-2	15 – 40		
Dipropylene Glycol Methyl Ether	34590-94-8	7 - 13		
Citric Acid	77-92-9	1 – 5		

Section 4 - First Aid Measures	
Eye Contact	Flush eyes with large amounts of water. If irritation persists, get medical attention.
Skin Contact	Flush with large amounts of water. Use soap if available. Remove severely contaminated clothing (including shoes) and launder before reuse.
Inhalation	In emergencies, use proper respiratory protection to immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.
Ingestion	If swallowed, DO NOT INDUCE VOMITING. Keep at rest. Get prompt medical attention.

Section 5 - Fire Fighting Measures	
Flash Point	None
Lower Flame Limit	Not established
Higher Flame Limit	Not established
Autoignition Temperature	Not established
Flammability Classification Mixtures	Not Flammable
Flammability Properties	Not Flammable
Extinguishing Media	Use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel to fire if possible to do so without hazard. If leak or spill has not ignited use water spray to disperse the vapours. Use foam, or dry chemical to extinguish fire.
Special Fire fighting Procedures	Respiratory and eye protection required for fire fighting personnel. Avoid spraying water directly into storage containers due to boil-over.
Hazardous Combustion Products	Fumes, smoke and carbon monoxide, oxides of sulphur.
Unusual fire & Explosion Hazards	N/D

Section 6 - Accidental Release Measures	
Land Spills	Contain and neutralize with soda ash Allow to stand until bubbling stops. Wash with large amounts of water
Water Spills	

Section 7 - Handling and Storage	
Handling	Open containers with care. Wash thoroughly after handling. Avoid contact with eyes and skin. Do not add water to the container while full of acid because of a potential violent reaction
Storage	NO special requirements

Section 8 - Exposure Controls, Personal Protective Equipment	
Engineering Controls	The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.
Eye Protection	Where prolonged and/or repeated eye contact is likely to occur, wear safety glasses with side shields. Where eye contact is unlikely, but may occur as a result of short and/or periodic exposures, wear safety glasses with side shields.
Skin Protection	Chemically resistant gloves are recommended.
Respiratory Protection	Where concentrations in air may exceed the occupational exposure limits given in the Hazardous Ingredients Section, and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

Section 9 - Physical and Chemical Properties	
Physical Form	Liquid
Colour	Clear
Odour	Slight Alcohol odor
pH	1
Vapour Pressure	<1 mm Hg at 42°C
Vapour Density	3.3
Boiling Point	100°C
Melting Freezing Point	0°C
Solubility in Water (77°F)	Miscible
Specific Gravity	1.21
Viscosity	~1 cSt at 25 °C
Volatility	90 %
Evaporation Rate	Not Determined
Coefficient of Water/Oil Distribution	N/D
Odour Threshold	N/D

Section 10 - Stability and Reactivity	
Chemical Stability	Stable
Conditions to Avoid	None
Incompatible Materials	Strong alkalis
Decomposition Products	none
Hazardous Polymerization	Will not occur.
Conditions of Reactivity	N/D

Section 11 - Toxicological Information			
LD50 Oral (rat)	5350 mg/kg (propylene glycol Methyl Ether), 2740 mg/kg (phosphoric acid)		
LD50 Dermal (rabbit)	>1000 mg/kg	LD50 Dermal (guinea pig)	>2000 mg/kg
LC50 (rat)	3 mg/m3 TWA 8 hours		
Carcinogenicity	N/D	Reproductive Effects	N/D
Sensitization	N/D	Teratogenicity	N/D
Irritancy	N/D	Mutagenicity	N/D
Toxicological Synergistics	N/D	Other Data	N/D

Section 12 - Ecological Information			
Environmental Effects		N/D	
BOD	N/D	COD	N/D

Section 13 - Disposal Considerations	
TCPL	No component is regulated
RCRA	If discarded in its purchased form this product would be a hazardous waste either by listing or characteristic. However, under RCRA, it is the responsibility of the product user to determine, at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

Section 14 - Transportation Information	
Shipping Name	Corrosive liquid acidic, NOS, Phosphoric acid
Hazard Class	8
P.I.N. Number	1760
Packaging	III
Product Label	Paratene® M361
WHMIS Classification	B3, D2.B
Listed on DSL	Yes

Section 15 - Regulatory Information	
WHMIS Classification	B3, D2.B Where concentrations in air may exceed the occupational exposure limits given in the Hazardous Ingredients Section, and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation
Listed on DSL	Yes

Section 16 - Other Information	
Date Issued	June 13, 2011
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