

Material Safety Data Sheet This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

WHMIS CLASS E: Corrosive liquid.

HCS Class: Corrosive liquid.

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Section 1. Che	Section 1. Chemical Product and Company Identification			
Product Name/ Trade name	Es-Steam	Code		402
Synonym	Extraction Cleaner	CAS#		Not applicable.
Chemical Family	Not available.	Validation 1	Date	3/2/2007
Chemical Formula	Not applicable.	Print Date		3/23/2007
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Oh 43607 (419) 241-2156	In Case of Emergency	Che	mtrec (800) 424-9300
TSCA	TSCA Inventory: All components listed or are exempt from listing			
DSL/ NDSL	All components listed unless noted elsewhere on this MSDS			ective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Anionic Surfactant Potassium Metasilicate Tetrasodium salt of ethylendiaminetetraacetic acid	5324-84-5 1312-76-1 64-02-8	<15 <15 <10	Not available. Not available. Not available.	Not available. Not available. ORAL (LD50): Acute: 3030 mg/kg [Rat].
Potassium Hydroxide	1310-58-3	1-5	Not available.	Not available.

Section 3. Hazards Identification		
Potential Acute Health Effects	May cause severe eye irritation. Skin contact can produce inflammation and blistering. Irritating to the mucous membranes of the nose, thorat and lungs. Harmful if swallowed.	
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis.	
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.	

Section 4. First Aid Measures		
Eye Contact	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.	
Skin Contact	Remove contaminated clothing. Flush affected area with water. Seek medical attention if irritation persists.	
Inhalation	Get to fresh air. Seek medical attention if irritation persists.	
Ingestion	Do not induce vomiting. Drink a large quantity of water. Seek medical attention immediately.	

Section 5. Fire Fig	Section 5. Fire Fighting Measures	
Products of Combustion	Not available.	
Fire Fighting Media and Instructions	N/A	
Special Remarks on Fire Hazards	N/A	
Special Remarks on Explosion Hazards	N/A	

Section 6. Accidental Release Measures		
Small Spill and Leak	Absorb with an inert material and place in an appropriate waste disposal container.	
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	

Section 7. Handling and Storage		
Precautions	After handling, always wash hands thoroughly with soap and water. Avoid contact with skin and eyes. DO NOT ingest.	
Incompatibility	Strong acids.	
Storage	Keep out of reach of children. Keep only in the original container. For Institutional and Commercial Use	

Section 8. Exposi	ure Controls/Personal Protection
Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection Eye	s Splash goggles.
Bod	No special protective clothing is required.
Respirator	Wear appropriate respirator when ventilation is inadequate.
Hand	ds Gloves.
Protective Clothing (Pictograms)	
Exposure Limits	Not available.

Section 9. Physic	al and Chemical Properties		
Physical State and Appearance	Liquid. (Hazy liquid.)	Odor	Pleasant. (Slight.)
Molecular Weight	Not applicable.	Taste	Not available.
рН	11.8 to 12 to 13.0 [Basic.]	Color	Green.
Boiling/Condensation Point	214°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.1 (Water = 1)		

Vapor Pressure	20mm Hg @ 68°F
Vapor Density	>1 (Air = 1)
Volatility	75
VOC	Not available.
Evaporation Rate	<1
Dispersion Properties	See solubility in water.
Solubility	Easily soluble in cold water.
The Product is:	May be combustible at high temperature.
Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Fire Hazards in Presence of Various Substances	No specific information is available in our database regarding the flammability of this product in presence of various materials.
Explosion Hazards in Presence of Various Substances	Not applicable

Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Incompatibility with Various Substances	Strong acids.
Hazardous Decomposition Will not occur. Products	

Section 11. Toxico	ological Information		
Routes of Entry	Eye contact.		
Toxicity to Animals	Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA).		
Acute Effects on Humans			
Eyes	Severe eye irritant. Liquid and mist may damage the eyes causing corneal injury.		
Skin	Skin irritant. May cause redness or swelling. Prolonged or repeated contact may cause dermatitis.		
Inhalation	Inhalation Vapors may be irritating to mucous membranes in the nose, throat, and lungs.		
Ingestion	Irritating to the mouth, throat, and gastrointestinal system. Large doses may cause vomiting and diarrhea.		
Chronic Effects on Humans	Repeated skin exposure can produce local skin destruction, or dermatitis.		
Special Remarks on Toxicity to Animals	No additional remark.		
Special Remarks on Chronic Effects on Humans	No additional remark.		

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products Biodegradation	of Not available.	
Special Remarks on the Products of Biodegradation	No additional remark.	

Section 14. Transport Information

DOT (U.S.A) (Pictograms)



TDG Classification TDG Class 8: Corrosive liquid.



PIN UN, Proper Shipping 1760 Corrosive liquid n.o.s.

Name, PG

Maritime Transportation Not available.

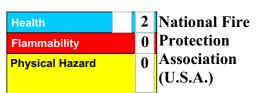
Special Provisions for

Transport

Not applicable.

Section 15. Other Regulatory Information and Pictograms				
WHMIS CLASS E: Corrosive liquid.				
No products were found.				
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).				
Other Classifications HCS (U.S.A.) HCS Class: Corrosive liquid.				
USA Regulatory Lists				
	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Potassium Hydroxide: immediate health hazard			
DSD (EEC)				
International Regulations Lists	No products were found.			
	WHMIS CLASS E: Con No products were OSHA: Hazardous HCS (U.S.A.) USA Regulatory Lists DSD (EEC) International	WHMIS CLASS E: Corrosive liquid. No products were found. OSHA: Hazardous by definition of Hazard Communication HCS (U.S.A.) HCS Class: Corrosive liquid. USA Regulatory Lists SARA 311/312 MSDS distribution - condended in the condense of the condense		

Hazardous Material Information System (U.S.A.)





The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE Specific Hazard MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Validated by CRushton on 3/2/2007.

Verified by CRushton.

Printed 3/23/2007.

Information Contact Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607

Notice to Reade

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on 3/2/2007. Es-Steam Page: 5/5

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