MSDS 0239

_____ Section 1 -- PRODUCT AND COMPANY IDENTIFICATION HMIS CODES PRODUCT NAME 3 Health Flammability 0 Liquid Descalit Reactivity 1 PRODUCT CODES PPI D 80902, 80904 CHEMICAL FAMILY Inorganic Acids USE Scale Remover EMERGENCY TELEPHONE NO. MANUFACTURER'S NAME Chemtrec 24 Hours The RectorSeal Corporation 2601 Spenwick Drive (800) 424-9300 Houston, Texas 77055 USA VALIDATION DATE TECHNICAL SERVICE TELEPHONE NO. May 3, 2006 (800) 231-3345 REVISION DATE May 3, 2006 Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS _____ % by WT CAS NO. INGREDIENT UNITS 7647-01-0 Hydrochloric Acid 27.2 ACGIH TLV CL 5 ppm OSHA PEL CL 5 ppm 1.05 70776-86-2 Ketoamino ACGIH TLV N/D OSHA PEL N/D ______ Section 3 -- HAZARDS IDENTIFICATION _____ SUMMARY OF ACUTE HAZARDS Corrosive. Causes severe skin and eye burns. Vapors may irritate eyes, nose, throat. Ingestion will cause chemical burns to digestive system and mucosal surface. May be fatal. INHALATION Vapors irritating to eyes, nose and throat. May be fatal. EYE CONTACT Corrosive. Causes severe eye burns. Can cause severe damage including blindness. SKIN CONTACT Corrosive. Causes severe skin burns. INGESTION Chemical burns to digestive system and mucosal surface. May be fatal. SUMMARY OF CHRONIC HAZARDS

Bronchitis, pulmonary, chemical burns and chemical pneumonitus. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

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Section 4 -- FIRST AID MEASURES
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If INHALED:	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action			
If on SKIN:	is essential. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.			
If in EYES:	Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.			
If SWALLOWED:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.			
Section	5 FIRE FIGHTING MEASURES			
FLASH POINT None EXTINGUSING MEDIA	LEL UEL N/A N/A			
SPECIAL FIRE FIGHT: (SCBA) and other possible (see Sect: UNUSUAL FIRE AND E produced in fire.	opriate for surrounding fires. ING PROCEDURES: Wear self-contained breathing apparatus r protective clothing. Hazardous decomposition products ion 10). Evacuate immediate area. XPLOSION HAZARDS: Toxic fumes of chlorine, and HCL may be			
	6 ACCIDENTAL RELEASE MEASURES			
keep upwind until of (direct application sodium bicarbonate should be restricted completed.	IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate area and gas has dispersed. Dike spill. Dilute with water fog n of alkali may cause violent splattering). Neutralize with . Persons not wearing protective equipment and clothing ed from areas of spills or leaks until clean up has been			
	7 HANDLING AND STORAGE			
upright when not in This product will a plastic containers	TAKEN IN HANDLING AND STORING: Keep container closed and n use. Do not store near heat, sparks, or open flames. attack glass, concrete and certain metals. Store only in . DO NOT USE METAL CANS.			

OTHER PRECAUTIONS: Refrain from splashing product when pouring. Avoid all contact with skin or clothing. Empty containers may contain residues and vapors. KEEP OUT OF REACH OF CHILDREN.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

_____ RESPIRATORY PROTECTION (SPECIFY TYPE): In confined poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air purifying or supplied air respirators. VENTILATION - LOCAL EXHAUST: Acceptable SPECIAL: N/A MECHANICAL (GENERAL): Acceptable OTHER: N/A PROTECTIVE GLOVES: Wear acid resistant gloves (neoprene, PVC, butyl rubber). EYE PROTECTION: Full-face shield and chemical splash goggles (ANSI Z-87.1 or equivalent). OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Acid resistant vinyl or polyethylene coated coveralls. WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse. ______ Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES _____ BOILING POINT: 214 F (101 C) @ 760mm Hg SPECIFIC GRAVITY (H20 = 1): 1.11 VAPOR PRESSURE (mm Hg): N/A MELTING POINT: N/A VAPOR DENSITY (AIR = 1): N/AEVAPORATION RATE (ETHYL ACETATE = 1): N/A APPEARANCE / ODOR: Amber Liquid / Irritating Odor SOLUBILITY IN WATER: Soluble VOLATILE ORGANIC COMPOUNDS(VOC)Content (Theoretical Percentage By Weight): 0% or (0 g/L) Section 10 -- STABILITY AND REACTIVITY _____ STABILITY: Stable CONDITIONS TO AVOID: Incompatables INCOMPATIBILITY (MATERIALS TO AVOID): A strong acid; violent reaction with bases; forms explosive hydrogen gas with base metals; oxidizers form toxic chlorine gas; reaction with sulfuric acid forms corrosive hydrochloric acid gas. Corrosive fume on contact with air. Highly corrosive to most metals with evolution of hydrogen gas, which may form explosive mixtures with air. Reacts with hydroxides, amines, alkalis, copper, brass, zinc. HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes of chlorine, and HCL. HAZARDOUS POLYMERIZATION: Will not occur. ______ Section 11 -- TOXICOLOGY INFORMATION _____ CHRONIC HEALTH HAZARDS No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. _____ TOXICOLOGY DATA Ingredient Name

Hydrochloric A				
Ketoamino	Oral-Rabbit, adu Inhalation-Rat L	lt LD50:900 mg/kg C50:3124 ppm/1H		
	Oral-Rat LD50:N/ Inhalation-Rat L			
Sectio	on 12 Ecologica	I Information		
ECOLOGICAL DATA Ingredient Name				
Hydrochloric A	Acid			
		ntration Potential	None	
	WATERFOWL TOXICI	ТҮ	N/A	
	BOD AQUATIC TOXICITY	282 nnm/	None '96 hr/mosquito	
Ketoamino	AQUALLC IUXICIII		90 m/mosquieo	
	Food Chain Conce	ntration Potential	N/D	
	WATERFOWL TOXICI	ТҮ	N/D	
	BOD		N/D	
	AQUATIC TOXICITY		N/D	
Sectio	on 13 DISPOSAL	CONSIDERATIONS		
Disposal Method: RCRA classified h			—	
Sectio	on 14 TRANSPORT	ATION INFORMATION		
DOT: Hydrochloric acid, solution, class 8, UN1789, PG II, ERG#157 OCEAN (IMDG): Hydrochloric acid, solution, class 8, UN1789, PG II, IMDG#8183, EmS#8-03, MFAG#700 AIR (IATA): Hydrochloric acid, solution, class 8, UN1789, PG II, ERG#157 WHMIS (CANADA): Class E				
Section 15 REGULATORY INFORMATION				
REGULATORY DATA Ingredient Name				
Hydrochloric A	Acid			
Ketoamino	SARA 313 TSCA Inventory CERCLA RQ RCRA Code			
	SARA 313	No		

CERCLA RQ	N/A			
RCRA Code	N/A			
Section 16 OTHER INFORMATION				
This document is prepared purs	uant to the OSHA Hazard Communication			
Standard (29 CFR 1910.1200). The	information herein is given in good faith,			

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