

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**TRADE NAME: REDEEM LIME & SCALE REMOVER #EC 309**

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**SECTION I - IDENTIFICATION**

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COMPANY NAME.....EPIC INDUSTRIES                      COMPANY ADDRESS.....1007 JERSEY AVENUE, NEW BRUNSWICK, NJ 08901  
TELEPHONE NUMBER.....1 (800) 221-3742                      EMERGENCY PHONE #.....1 (800) 255-3924 CHEM-TEL, INC.  
PRODUCT HAZARD RATINGS: HEALTH = 3, FIRE = 0, REACTIVITY = 0  
PROTECTIVE EQUIPMENT: H(HMIG)  
RATING LEGEND: 4 = EXTREME, 3 = SERIOUS, 2 = MODERATE, 1 = SLIGHT, 0 = MINIMAL

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**SECTION II - HAZARDOUS INGREDIENTS**

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HAZARDOUS COMPONENTS	HAZARDOUS %	TLV(UNITS)	PEL	CAS#
PHOSPHORIC ACID	< 30	1	1	7664 382
NON HAZARDOUS INGREDIENTS      BAL.				

UNIDENTIFIED INGREDIENTS ARE NOT CONSIDERED HAZARDOUS UNDER THE FEDERAL HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

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**SECTION III - PHYSICAL DATA**

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BOILING POINT (F).....212	FREEZING POINT (F).....NA	VOLATILITY/VOL (%).....>65
VAPOR PRESSURE.....<18	SOLUBILITY IN H2O.....COMPLETE	SPECIFIC GRAVITY (H2O=1) 1.169
EVAPORATION RATE (BuAc=1) <1	pH.....<1	APPEARANCE/ODOR..... COLORLESS LIQUID: SLIGHT ODOR.

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

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FLASH POINT.....NONE      LOWER FLAME LIMIT.....NA      HIGHER FLAME LIMIT.....NA      EXTINGUISH MEDIA.....USE MEDIA  
SUITABLE FOR SURROUNDING MATERIALS.      FOR FIRE.....NO SPECIAL PROCEDURES REQUIRED.  
UNUSUAL FIRE HAZARD.....NONE KNOWN.

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**SECTION V - HEALTH HAZARD DATA**

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OVEREXPOSURE EFFECTS.....INHALATION OF MIST MAY CAUSE RESPIRATORY IRRITATION WITH COUGHING, SNEEZING, SALIVATION AND DIFFICULT BREATHING. SEVERE EXPOSURE MAY LEAD TO CHEMICAL PNEUMONITIS. SEVERE IRRITATION SKIN BURNS. BURNING SENSATION MAY BE DELAYED. EYE CONTACT CAUSES SEVERE OR PERMANENT DAMAGE.

**FIRST AID PROCEDURES:**

**EYES:** IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING THE EYELIDS OPEN. GET PROMPT MEDICAL ATTENTION. **SKIN:** REMOVE CONTAMINATED CLOTHING AND WASH SKIN WITH PLENTY OF WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. WASH CLOTHING BEFORE RE-USE. **INHALATION:** MOVE VICTIM TO FRESH AIR AND RESTORE BREATHING IF NECESSARY. STAY WITH VICTIM UNTIL ARRIVAL OF EMERGENCY MEDICAL PERSONNEL. **INGESTION:** CONTACT LOCAL POISON CENTER OR PHYSICIAN IMMEDIATELY!!

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**SECTION VI - REACTIVITY DATA**

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STABILITY.....NORMALLY STABLE;      INCOMPATIBLE MATERIALS.....ALKALIES. CONTACT WITH CERTAIN  
METALS MAY YIELD EXPLOSIVE HYDROGEN GAS.;      DECOMPOSITION PRODUCTS.....PHOSPHORUS OXIDES, HYDROGEN..

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**SECTION VII - SPILL OR LEAK PROCEDURE**

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**PROCEDURES**....WEAR PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION VIII). CONTAIN SPILL, ADD SODIA ASH OR LIME, AND PLACE IN POLY-LINED DRUMS FOR DISPOSAL. **WASTE DISPOSAL METHOD**.....DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

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**SECTION VIII - SPECIAL PROTECTION**

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**RESPIRATORY PROTECTION:** IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVEREXPOSURE WEAR NIOSH APPROVED HIGH EFFICIENCY PARTICULATE FILTER RESPIRATOR.  
**EYEWEAR:** IF SPLASH POTENTIAL FOR EYE CONTACT EXISTS, WEAR CHEMICAL GOGGLES OR FACE SHIELD.  
**VENTILATION:** LOCAL EXHAUST MAY BE NECESSARY UNDER SOME HANDLING/USE CONDITIONS. SPECIFIC NEEDS SHOULD BE ADDRESSED BY SUPERVISORY OR HEALTH/SAFETY PERSONNEL.  
**CLOTHING/PROTECTIVE GLOVES:** WEAR NEOPRENE OR OTHER CHEMICAL RESISTANT GLOVES AND APRON OR COVERALLS AND/OR FOOT COVERINGS AS NEEDED TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.

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**SECTION IX - SPECIAL PRECAUTIONS**

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**CORROSIVE LABEL:**      CORROSIVE LIQUID, N.O.S. (CONTAINS PHOSPHORIC ACID)      UN1760  
STORE IN CLOSED CONTAINER IN WELL-VENTILATED AREA. NOTE: IF DILUTING, ALWAYS ADD THIS PRODUCT SLOWLY TO WATER WITH CONSTANT STIRRING.      COMPOUND: CLEANING LIQUID

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**SECTION X - TRANSPORTATION (D.O.T. CLASSIFICATION HM-181)**

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SHIPPING NAME= COMPOUNDS, CLEANING LIQUID (CONTAINS PHOSPHORIC ACID)  
HAZARD CLASS = 8      I.D. # = NA1760      PACKING GROUP = III      LABEL = CORROSIVE  
EMERGENCY RESPONSE GUIDE NUMBER = ERG154

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APPROVAL	TECHNICAL DIRECTOR	8/23/12
	TITLE	DATE

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The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusion of this report obsolete. Therefore, no warranty is extended as to applicability of this information to the users intended purpose or for the consequences of its use or misuse.

NA - NOT APPLICABLE

NE - NOT ESTABLISHED

UN - UNAVAILABLE