

MATERIAL SAFETY DATA SHEET

VALUE PRODUCTS, INC.

2128 INDUSTRIAL DRIVE, STOCKTON, CA 95206

PRODUCT CODE: 2441
REVISION: 3

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SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: **LIME SCALER CLEANER**
CHEMICAL NAME: ACID-SURFACTANT BLEND
FORMULA: PROPRIETARY
DOT HAZARD CLASS: CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID & HYDROCHLORIC ACID SOLUTION), 8, UN 1760

HAZARD RATING (NFPA 704)	HAZARD RATING	PROTECTIVE EQUIPMENT
HEALTH: 3	0=MINIMAL	A=GOGGLES
FIRE: 0	1=SLIGHT	B=GOGGLES, GLOVES
REACTIVITY: 3	2=MODERATE	C=GOGGLES, GLOVES, APRON
PROTECTIVE EQUIPMENT: D&E	3=SERIOUS	D=GOGGLES, GLOVES, APRON, FACE SHIELD
	4=SEVERE	E=GOGGLES, GLOVES, RESPIRATOR

CHEMTREC'S 24 HOUR EMERGENCY TELEPHONE NUMBER 800-424-9300

SECTION II HAZARDOUS INGREDIENTS

SUBSTANCES LISTED IN THIS SECTION ARE THOSE IDENTIFIED AS BEING PRESENT AT A CONCENTRATION OF 1% OR GREATER, OR 0.1% IF THE SUBSTANCE IS ON THE LIST OF POTENTIAL CARCINOGENS CITED IN OSHA HAZARD COMMUNICATION STANDARD.

MATERIAL	CAS#	TVL	PEL
HYDROCHLORIC ACID	7641-01-0	5 ppm	5 ppm
PHOSPHORIC ACID	7664-38-2	1mg/m ³	1mg/m ³

SECTION III PHYSICAL DATA

BOILING POINT: 206 °F	VOLATILE: 78%
VAPOR PRESSURE: >1.0	SOLUBILITY IN WATER: COMPLETE
VAPOR DENSITY: 11 (AIR=1)	SPECIFIC GRAVITY: 1.130-1.135
EVAPORATION RATE: >1 (BUTYL ACETATE=1)	VISCOSITY: 25 CPS @ 68 °F
pH 1% SOLUTION: 1.5-2.0	
DESCRIPTION: CLEAR BROWN SOLUTION, PUNGENT ODOR	

SECTION IV FIRE AND EXPLOSION HAZARDS

FLASH POINTS: NON-FLAMMABLE METHOD USED: C.O.C.
EXTINGUISHING MEDIA: WATER. WEAR POSITIVE PRESSURE SELF-BREATHING CONTAINED APPARATUS.
UNUSUAL FIRE OR EXPLOSIVE HAZARD: MAY GENERATE HYDROGEN GAS WHEN THE PRODUCT IS IN CONTACT WITH METALS.

SECTION V HEALTH HAZARD DATA

SIGNS AND SYMPTOMS OF EXPOSURE (SKIN, EYE CONTACT; INHALATION; INGESTION)

EYE CONTACT: MAY CAUSE PAIN, LACHRYMATION (TEAR), AND SEVERE IRRITATION TO CORNEAL. SERIOUS INJURY MAY RESULT IN PERMANENT IMPAIRMENT OF VISION, EVEN BLINDNESS.
INHALATION: MAY CAUSE SEVERE IRRITATION OF NOSE, MOUTH. EXCESSIVE EXPOSURE MAY CAUSE SEVERE INJURY TO UPPER RESPIRATORY TRACT AND LUNGS.
INGESTION: CAN CAUSE SEVERE BURN TO MOUTH, THROAT, AND GASTROINTESTINAL TRACT. MAY ALSO CAUSE ULCERATION.
SKIN CONTACT :SHORT, SINGLE EXPOSURE MAY CAUSE SEVERE BURN TO SKINS.

FIRST AID MEASURES

EYE CONTACT: IMMEDIATELY AND IMPERATIVELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR AT LEAST 30 MINUTES. PROMPT MEDICAL ATTENTION IS ESSENTIAL.
INHALATION: REMOVE TO FRESH AREA. IF NOT BREATHING, GIVE MOUTH TO MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. CALL A PHYSICIAN.
INGESTION: DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF WATER AND TRANSPORT VICTIM TO MEDICAL FACILITY IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
SKIN CONTACT: WASH SKIN WITH LOTS OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE REUSE. IF IRRITATION OCCURS AND PERSISTS SEEK MEDICAL ATTENTION.

SECTION VI REACTIVITY DATA

STABILITY: STABLE
MATERIALS TO AVOID: AVOID CONTACT WITH MOST METALS, STRONG ALKALIES OR OXIDIZERS.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: DIRECT FLAME, CONTACT WITH METALS.
HAZARDOUS DECOMPOSITION: TOXIC PHOSPHOROUS COMPOUNDS, CARBON MONOXIDE, EXPLOSIVE HYDROGEN GAS.

SECTION VII SPILL OR LEAK PROCEDURES

CLEAN-UP PROCEDURES: ONLY TRAINED AND PROPERLY PROTECTED PERSONNEL SHOULD BE INVOLVED IN SPILLED CLEAN-UP OPERATIONS. MOP UP AND PLACE MATERIAL IN SEALABLE CONTAINERS FOR DISPOSAL. USE LIMESTONE, LIME OR SODA ASH TO NEUTRALIZE THE RESIDUES. FLUSH CONTAMINATED AREAS WITH WATER.

RECOMMENDED WASTE DISPOSAL METHOD: THE MATERIALS RESULTED FROM THE CLEAN-UP OPERATIONS MAY BE HAZARDOUS; THEREFORE, ARE SUBJECT TO SPECIFIC REGULATIONS. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. ENSURE THAT ALL APPLICABLE AGENCIES RECEIVE PROPER NOTIFICATION OF SPILL AND DISPOSAL METHODS.

SECTION VIII SPECIAL PROTECTION DATA

RESPIRATORY PROTECTION: NIOSH-APPROVED RESPIRATOR EQUIPPED WITH CARTRIDGE FOR ORGANIC/ACID VAPORS.
EYE PROTECTION: CHEMICAL GOGGLES.
PROTECTIVE CLOTHING: RUBBER GLOVES, APRON. FULL-LENGTH CLOTHING AND SAFETY SHOES.
VENTILATION: LOCAL MECHANICAL EXHAUST VENTILATION
OTHER PROTECTIVE MEASURES: EYEWASH AND SAFETY SHOWER SHOULD BE NEARBY AND READY FOR USE.

SECTION IX SPECIAL PRECAUTION

HYGIENIC PRACTICES IN HANDLING STORING: WASH THOROUGHLY AFTER HANDLING.
PRECAUTION TO BE TAKEN IN HANDLING AND STORING: STORE IN COOL, DRY, VENTILATED AREAS.
DISPOSAL OF EMPTY CONTAINER: EMPTY CONTAINERS SHOULD BE TRIPLE RINSED WITH WATER AND DISPOSED OF PURSUANT TO LOCAL, STATE, AND FEDERAL REQUIREMENTS.

SECTION X USER'S RESPONSIBILITY

THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE REMAINS WITH THE USER. THE USER SHOULD CONSIDER THE HEALTH HAZARD AND SAFETY INFORMATION CONTAINED HEREIN AS A GUIDE AND SHOULD TAKE THOSE PRECAUTIONS REQUIRED IN AN INDIVIDUAL OPERATION TO INSTRUCT EMPLOYEES AND DEVELOP WORK PRACTICE PROCEDURES FOR A SAFE WORK ENVIRONMENT.

THE INFORMATION CONTAINED HEREIN, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, IS ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.