

MATERIAL SAFETY DATA SHEET

PAGE 1 OF 3

VALUE PRODUCTS INC 2128 INDUSTRIAL DR. STOCKTON, CA 95206

PRODUCT CODE: 963978

REVISION : 0
DATE ISSUED: 02/05/07
SUPERSEDES : 08/10/98

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME : **BREAK UP**
CHEMICAL NAME : HIGHLY ALKALINE DETERGENT BLEND
FORMULA : PROPRIETARY
DOT HAZARD CLASS : UN 1760 CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE 7%, HYDROXIDE 28%)

| <u>HAZARD RATING (NFPA 704)</u> | <u>HAZARD RATING</u> | <u>PROTECTIVE EQUIPMENT</u> |
|---------------------------------|----------------------|---------------------------------------|
| HEALTH: 3 | 0=MINIMAL | A=GOGGLES |
| FIRE: 0 | 1=SLIGHT | B=GOGGLES, GLOVES |
| REACTIVITY: 0 | 2=MODERATE | C=GOGGLES, GLOVES, APRON |
| PROTECTIVE EQUIPMENT: D | 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# | TLV | PEL |
|---------------------|-----------|--------|--------|
| SODIUM HYDROXIDE | 1310-73-2 | 2mg/m3 | 2mg/m3 |
| POTASSIUM HYDROXIDE | 1310-58-3 | 2mg/m3 | 2mg/m3 |

SECTION III PHYSICAL DATA

| | |
|--------------------------------------|---------------------------------|
| BOILING POINT : 212 °F | VOLATILE : 61% |
| VAPOR PRESSURE (AIR =1): >1 | SOLUBILITY IN WATER: COMPLETE |
| VAPOR DENSITY: (AIR=1): >1 | SPECIFIC GRAVITY: 1.381+/- .005 |
| EVAPORATION RATE (WATER=1):>1 | VISCOSITY: 25 CPS @ 68 °F |
| PH (1% SOLUTION): 13.0+/- .5 | |
| DESCRIPTION: CLEAR ODORLESS SOLUTION | |

SECTION IV FIRE AND EXPLOSION HAZARDS

FLASH POINTS: NON-COMBUSTIBLE

FLAMMABLE LIMITS LEL/UEL: NA

METHOD USED: CLEVELAND OPEN CUP

EXTINGUISHING MEDIA: WATER SPRAY, FOAM , CARBON DIOXIDE MAY BE USED.

UNUSUAL FIRE OR EXPLOSIVE HAZARD: MAY GENERATE HYDROGEN GAS, AND EVOLVE LARGE AMOUNT OF HEAT UPON CONTACT WITH ZINC, ALUMINUM, TIN, AND OTHER ACTIVE METALS.

SECTION V**HEALTH HAZARD DATA**

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

EYE CONTACT : VAPOR, LIQUID, AND MISTS ARE CORROSIVE TO EYES. BRIEF CONTACT OF THIS MATERIAL WILL CAUSE SEVERE DAMAGE TO EYES. SERIOUS INJURY MAY INCLUDE PERMANENT IMPAIRMENT OF VISION, EVEN BLINDNESS IF NOT PROMPTLY AND PROPERLY TREATED.

INHALATION : MAY CAUSE SEVERE IRRITATION OF NOSE, MOUTH. EXCESSIVE EXPOSURE MAY CAUSE SEVERE INJURY TO UPPER RESPIRATORY TRACT AND LUNGS.

INGESTION : CAN CAUSE IRRITATION OR SEVERE BURN TO MOUTH, THROAT, AND GASTROINTESTINAL TRACT. MAY ALSO CAUSE ULCERATION. SWALLOWING LARGE QUANTITIES MAY RESULT IN DEATH.

SKIN CONTACT : SHORT, SINGLE EXPOSURE MAY CAUSE BURN TO SKINS. PROLONGED LIQUID CONTACT WILL BURN AND DESTROY SURROUNDING TISSUES.

FIRST AID MEASURES

EYE CONTACT : IMMEDIATELY AND IMPERATIVELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR AT LEAST 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS TO ENSURE FLUSHING OF THE ENTIRE SURFACE. PROMPT MEDICAL ATTENTION IS ESSENTIAL.

INHALATION : REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE MOUTH TO MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. CALL A PHYSICIAN IMMEDIATELY.

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 FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE REUSE. IF IRRITATION OCCURS AND PERSISTS SEEK MEDICAL ATTENTION.

SECTION VI**REACTIVITY DATA**

STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): AVOID MIXING OF THIS MATERIAL WITH STRONG ACIDS OR OXIDIZERS. ALSO AVOID METALS SUCH AS ALUMINUM, TIN, GALVANIZED ZINC, BRASS AND BRONZE. DO NOT CONTACT WITH TRICHLOROETHYLENE SINCE DICHLORO- ACETYLENE MAY SPONTANEOUSLY BE FORMED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: EXCESSIVE HEAT AND ANY CONTAMINATION.

HAZARDOUS DECOMPOSITION: FLAMMABLE HYDROGEN GAS WILL BE LIBERATED UPON CONTACT WITH SOME METALS SUCH AS ALUMINUM.

SECTION VII**SPILL OR LEAK PROCEDURES**

CLEAN-UP PROCEDURES: ONLY TRAINED AND PROPERLY PROTECTED PERSONNEL SHOULD BE INVOLVED IN SPILLED CLEAN-UP OPERATIONS. WEAR ALKALINE-RESISTANT SUIT AND COMPLETE PROTECTIVE EQUIPMENTS INCLUDING RUBBER GLOVES, RUBBER BOOTS, AND SELF-BREATHING APPARATUS DURING CLEAN-UP OPERATIONS. MOP UP AND PLACE MATERIAL IN SEALABLE WASTE CONTAINERS FOR DISPOSAL. KEEP OUT OF SEWERS, STORM DRAINS, SURFACE WATER. FLUSH CONTAMINATED AREAS WITH WATER AFTER ALL VISIBLE TRACES OF SPILLS HAVE BEEN REMOVED.

RECOMMENDED WASTE DISPOSAL METHOD: THE MATERIALS RESULTED FROM THE CLEAN-UP OPERATIONS MAY BE HAZARDOUS; THEREFORE, ARE SUBJECTED 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 WHEN PERMISSIBLE EXPOSURE LIMITS ARE EXCEEDED.
EYE PROTECTION : CHEMICAL GOGGLES.
PROTECTIVE CLOTHING : RUBBER GLOVES, APRON, FULL-LENGTH CLOTHING.
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. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. DO NOT USE PRESSURE TO EMPTY CONTAINERS.

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.

REVISION: