

**MATERIAL SAFETY DATA SHEET****VALUE PRODUCTS INC**

2128 INDUSTRIAL DRIVE STOCKTON, CA 95206

PRODUCT CODE: **2204**REVISION : 0  
DATE ISSUED: 03/20/06  
SUPERSEDES :**SECTION I PRODUCT IDENTIFICATION**

PRODUCT NAME : **FOAM KLEEN**

CHEMICAL NAME : HIGHLY ALKALINE, DETERGENT BLEND

FORMULA : PROPRIETARY

DOT HAZARD CLASS : CORROSIVE LIQUID, POTASSIUM HYDROXIDE SOLUTION, UN1814

HAZARD RATING (NFPA 704)	HAZARD RATING	PROTECTIVE EQUIPMENT
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
POTASSIUM HYDROXIDE ANHYDROUS	1310-58-3	2mg/m3	2mg/m3

**SECTION III PHYSICAL DATA**

BOILING POINT : 212 °F	VOLATILE : 70%
VAPOR PRESSURE (AIR=1): >	SOLUBILITY IN WATER: COMPLETE
VAPOR DENSITY: (AIR=1): WATER BASED	SPECIFIC GRAVITY: 1.24+/- .005
EVAPORATION RATE (WATER=1):>1	VISCOSITY: 25 CPS @ 68 °F
PH (CONCENTRATE): 13.5-14.0	
DESCRIPTION: CRYSTAL CLEAR 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. A BURNING SENSATION IN THE NOSE AND THROAT AS WELL AS COUGHING, CHOKING MAY ALSO BE NOTED. 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 TO CONCENTRATED SOLUTION MAY CAUSE IMMEDIATE LOCAL REACTION INCLUDING REDNESS, ITCHING, IRRITATION AND/OR BURN, FOLLOWED BY LOSS OF SURFACE LAYERS OF THE SKIN. PROLONGED LIQUID CONTACT WILL BURN AND DESTROY SURROUNDING TISSUES. CONTINUED CON.

**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 AREA. 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. IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR AND SEEK MEDICAL ATTENTION 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

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 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 IF USE CONDITION GENERATES VAPORS.

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.

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**SECTION IX****SPECIAL PRECAUTION**

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HYGIENIC PRACTICES IN HANDLING: WASH THOROUGHLY AFTER HANDLING.

PRECAUTIONS 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.

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**SECTION X****USER'S RESPONSIBILITY**

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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.*