

## MATERIAL SAFETY DATA SHEET

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VALUE PRODUCTS INC

2765 SCOTT BLVD SANTA CLARA, CA 95050

PRODUCT CODE: 1346

REVISION : 0  
DATE ISSUED: 11/17/99  
SUPERSEDES :

## SECTION I

## PRODUCT IDENTIFICATION

PRODUCT NAME : SELECT FORCE 40 HARD WATER

CHEMICAL NAME : HIGHLY ALKALINE DETERGENT BLEND  
FORMULA : PROPRIETARY  
DOT HAZARD CLASS : SODIUM HYDROXIDE, SOLID, MIXTURE, 8, UN1823, PG II

HAZARD RATING (NFPA 704)

## HAZARD RATING SCALE

HEALTH: 3  
FIRE: 0  
REACTIVITY: 0  
SPECIAL: NONE  
0=MINIMAL  
1=SLIGHT  
2=MODERATE  
3=SERIOUS  
4=SEVERE

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 (BASED ON 100% FORMULA LEVEL)	CAS#	TLV	REL
SODIUM HYDROXIDE	1310-73-2	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>
SODIUM DICHLOROISOCYANURATE	2893-78-9	0.5 ppm	0.5 ppm
SODIUM TRIPOLY PHOSPHATE	7758-29-4	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>

## SECTION III

## PHYSICAL DATA

	BOILING POINT : NOT APPLICABLE	VOLATILE : NA
	VAPOR PRESSURE: NOT ESTABLISHED	SOLUBILITY IN WATER: COMPLETE
	VAPOR DENSITY: (AIR=1): NA	EVAPORATION RATE (H <sub>2</sub> O=1): NA
	SPECIFIC GRAVITY: NA	VISCOSITY: NA
	PH 1% SOLUTION: 12.3-12.6	
	DESCRIPTION: WHITE GRANULAR POWDER, SLIGHTLY CHLORINE ODOR	

## SECTION IV

## FIRE AND EXPLOSION HAZARDS

FLASH POINTS: NON-COMBUSTIBLE

FLAMMABLE LIMITS LEL/UEL: NA

METHOD USED: C.O.C.

EXTINGUISHING MEDIA: WATER SPRAY, FOAM, CARBON DIOXIDE MAY BE USED. WATER RUN-OFF FROM FIREFIGHTING OPERATIONS MAY BE CORROSIVE. WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE OR EXPLOSIVE HAZARD: NITROGEN TRICHLORIDE CAN BE GENERATED BY REACTION OF WATER ON THIS CHLORINE CONTAINING PRODUCT. CONTACT WITH METALS SUCH AS MAGNESIUM, ALUMINUM, GALVANIZED ZINC TO GENERATE EXPLOSIVE HYDROGEN GAS.

## SECTION V

## HEALTH HAZARD DATA

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

EYE CONTACT : DESTRUCTIVE TO EYE TISSUE UPON CONTACT. SMALL QUANTITIES MAY RESULT IN PERMANENT DAMAGE OR LOSS OF VISION.

INHALATION : CAN CAUSE IRRITATION TO THROAT AND RESPIRATORY TRACT. A BURNING SENSATION IN THE NOSE, THROAT AS WELL AS COUGHING AND CHOKING MAY BE NOTED. CONTINUED DEEP INHALATION MAY DAMAGE LUNG TISSUES.

INGESTION : CAN CAUSE SEVERE BURN OF MUCOUS MEMBRANE OF THE MOUTH, THROAT, ESOPHAGUS, AND STOMACH. MAY BE FATAL.

SKIN CONTACT : CAN CAUSE IRRITATION TO SKIN UPON CONTACT WITH POWDER. CONTRACTING WITH CONCENTRATED SOLUTION WILL CAUSE IMMEDIATE LOCAL REACTION INCLUDING ITCHING, IRRITATION, FOLLOWED BY LOSS OF SURFACE LAYERS OF SKINS. PROLONGED CONTACT WITH SOLUTION MAY CAUSE CHRONIC DERMATITIS.

## FIRST AID MEASURES

EYE CONTACT : IMMEDIATELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS TO ENSURE FLUSHING OF THE ENTIRE SURFACE. SEEK MEDICAL ATTENTION AS NEEDED.

INHALATION : REMOVE TO FRESH AREA. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING STOP, START ARTIFICIAL RESUSCITATION. TRANSPORT VICTIM TO A MEDICAL FACILITY IMMEDIATELY.

INGESTION : DO NOT INDUCE VOMITTING. DRINK LARGE QUANTITIES OF WATER 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 AS NEEDED.

## SECTION VI

## REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY(MATERIALS TO AVOID) : ACIDS, OXIDIZERS.

POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEAT, HUMID CONDITION.

HAZARDOUS DECOMPOSITION: EXOTHERMIC REACTIONS WHEN MIXED WITH STRONG ACIDS TO LIBERATE CHLORINE GAS. REACT WITH FOOD/DRINKS CONTAINING SUGAR TO FORM CARBON MONOXIDE

## SECTION VII

## SPILL OR LEAK PROCEDURES

CLEAN-UP PROCEDURES: WEAR PROTECTIVE EQUIPMENTS INCLUDING NIOSH-APPROVED FULL FACEPIECE COMBINATION DUST/MIST AND ACID GAS RESPIRATORS, RUBBER BOOTS, AND FULL-LENGTH CLOTHING DURING CLEAN-UP OPERATIONS. ONLY TRAINED PERSONNEL SHOULD BE INVOLVED. SWEEP UP, VACUUM AND PLACE MATERIAL IN DRY, SEALABLE CONTAINERS FOR DISPOSAL. AVOID DUSTING.

RECOMMENDED WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. ENSURE THAT ALL RESPONSIBLE FEDERAL, STATE, LOCAL AGENCIES RECEIVE PROPER NOTIFICATION OF SPILLS AND DISPOSAL METHODS.

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SECTION VIIISPECIAL PROTECTION DATA  
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RESPIRATORY PROTECTION : NIOSH-APPROVED DUST MASK.

EYE PROTECTION : SAFETY GOGGLES.

PROTECTIVE CLOTHING : RUBBER GLOVES, FULL-LENGTH CLOTHING.

VENTILATION : LOCAL MECHANICAL EXHAUST

OTHER PROTECTIVE MEASURES: EYEWASH FOUNTAIN AND SAFETY SHOWER  
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## SECTION IX

SPECIAL PRECAUTION  
-----HYGIENIC PRACTICES IN HANDLING STORING: WASH THOROUGHLY AFTER HANDLING. DO NOT  
EAT, DRINK, SMOKE IN THE WORKING AREAS.PRECAUTION TO BE TAKEN IN HANDLING AND STORING: STORE IN COOL, DRY, VENTILATED  
AREAS, AWAY FROM OXIDIZERS, ACIDS.DISPOSAL OF EMPTY CONTAINER: EMPTY CONTAINERS SHOULD BE TRIPLE RINSED WITH  
WATER AND DISPOSED OF PURSUANT TO LOCAL, STATE, AND FEDERAL REQUIREMENTS.-----  
SECTION XUSER'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