

## 1. PRODUCT AND COMPANY IDENTIFICATION

**NAME: SOLID DISH MACHINE DETERGENT**

**USE:** MECHANICAL DISH DETERGENT

**LABEL BRAND:** U S CHEMICAL

**MSDS # 105864    CODE # 077708**

U S CHEMICAL,    316 HART STREET,    WATERTOWN, WI 53094 USA  
 MEDICAL EMERGENCY #: 1-866-923-4913 USA  
 SPILL EMERGENCY #: 1-800-424-9300 USA  
 PRODUCT INFORMATION #: 1-800-558-9566 (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)  
 INTERNET ADDRESS: [WWW.USCHEMICAL.COM](http://WWW.USCHEMICAL.COM)  
 REVIEWED 2-2-10    REVISED 2-2-10    SECTION REVISED: 1

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:**

DANGER. CORROSIVE. CAUSES EYE AND SKIN BURNS.  
 HARMFUL OR FATAL IF SWALLOWED.



**PRINCIPLE ROUTES OF EXPOSURE:** EYES, SKIN, INGESTION, INHALATION.

**POTENTIAL ACUTE HEALTH EFFECTS**

**EYES:** CORROSIVE. CAUSES EYE BURNS. MAY CAUSE PERMANENT DAMAGE INCLUDING BLINDNESS WITHOUT IMMEDIATE FIRST AID TREATMENT.

**SKIN:** CORROSIVE. CAUSES SKIN BURNS. MAY CAUSE PERMANENT DAMAGE. HARMFUL CONTACT MAY NOT CAUSE IMMEDIATE PAIN.

**INHALATION:** CORROSIVE. INHALATION OF DUST OR MISTS MAY CAUSE CORROSIVE EFFECTS TO NOSE, THROAT AND RESPIRATORY SYSTEM.

**INGESTION:** CORROSIVE. MAY CAUSE BURNS TO MOUTH, THROAT AND STOMACH. HARMFUL OR FATAL IF SWALLOWED.

**MEDICAL CONDITIONS AGGRAVATED:** NONE KNOWN.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	% BY WT	LC50/LD50
SODIUM HYDROXIDE	1310-73-2	10.0 – 30.0	SEE 11.0

STATE RIGHT TO KNOW: THIS PRODUCT CONTAINS:  
 SODIUM TRIPOLYPHOSPHATE/7758-29-4, SODIUM HYDROXIDE/1310-73-2,  
 TRISODIUM NITRILOTRIACETATE/18662-53-8, SODIUM POLYACRYLATE/9003-04-7,  
 BLOCK COPOLYMER/9003-11-6

#### 4. FIRST AID MEASURES

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**EYES:** IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15-20 MINUTES, KEEPING EYELIDS OPEN. **SKIN:** IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15-20 MINUTES. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE.

**IF SWALLOWED:** GIVE A CUPFUL OF WATER OR MILK. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**INHALATION: IF BREATHING IS AFFECTED:** REMOVE TO FRESH AIR.

**ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-866-923-4913 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.**

**NOTE TO PHYSICIAN:** CALL 1-866-923-4913 FOR ASSISTANCE WITH THE MANAGEMENT OF EXPOSURES.

#### 5. FIRE-FIGHTING MEASURES

**FLAMMABILITY:** NO HAZARD.

**FLASH POINT:** N.A.P.

**PRODUCTS OF COMBUSTION:** SEE SECTION 10.

**SUITABLE EXTINGUISHING MEDIA:** FOR FIRES IN AREA, USE APPROPRIATE MEDIA. FOR EXAMPLE: WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR ALCOHOL FOAM.

**SPECIFIC HAZARDS:** CORROSIVE PRODUCT MAY REACT WITH CERTAIN METALS. SEE 8. AND 10. THIS PRODUCT MAY REACT VIOLENTLY WITH WATER.

**SPECIFIC METHODS:** NORMAL FIRE FIGHTING PROCEDURES MAY BE USED.

#### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** CORROSIVE. PUT ON PERSONAL PROTECTIVE EQUIPMENT. SEE 8.

**SPILL RESPONSE:** THIS MATERIAL IS A SOLID IN A PLASTIC CANISTER WHICH CANNOT BE SPILLED OR LEAK. HOWEVER, DURING USE THE PRODUCT IS DISSOLVED AND THIS DILUTED SOLUTION SHOULD BE TREATED AS FOLLOWS: FLUSH SMALL SPILLS WITH WATER TO LOCAL SANITARY SEWER AS PERMITTED. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES. BE CAREFUL AS SPILLS ARE SLIPPERY.

#### 7. HANDLING AND STORAGE

**HANDLING:** FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES. AVOID INHALATION, INGESTION, AND CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT TASTE OR SWALLOW. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. PRODUCT RESIDUE MAY REMAIN IN EMPTY CONTAINERS. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

**STORAGE:** ROTATE STOCK REGULARLY. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID TEMPERATURES ABOVE 120°F. STORAGE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT IS RECOMMENDED. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF CHILDREN'S REACH.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**EXPOSURE LIMITS:**

SODIUM HYDROXIDE = 2 MG/M3 CEILING LIMIT (ACGIH), 2 MG/M3 TWA (OSHA)

**ENGINEERING CONTROLS:** NONE REQUIRED. GENERAL ROOM VENTILATION IS TYPICALLY ADEQUATE.**PERSONAL PROTECTION****EYES:** SPLASH PROOF SAFETY GLASSES, SAFETY GOGGLES AND AN EYE WASH STATION.**HANDS:** CHEMICAL RESISTANT GLOVES: RUBBER OR NEOPRENE. LONG TYPE IF NEEDED.**RESPIRATORY:** NONE REQUIRED WITH NORMAL USE.**FEET:** TYPICALLY NOT NEEDED. WEAR BOOTS DURING SPILL & WHEN EXPOSURE IS POSSIBLE.**BODY:** IF MAJOR EXPOSURE IS POSSIBLE, WEAR FULL-COVER PROTECTIVE CLOTHING.**9. PHYSICAL AND CHEMICAL PROPERTIES****COLOR:** OFF-WHITE**ODOR:** NONE**pH CONCENTRATE:** ABOVE 12.0 (BASIC)**pH @ 2500 PPM SOLUTION:** 11.5 (BASIC)**pH @ USE DILUTION:** N.AV.**PHYSICAL STATE:** SOLID**SPECIFIC GRAVITY:** 1.450**VISCOSITY:** N.AP.**BOILING POINT:** N.AP.**MELTING POINT:** ABOVE 120°F**FLASH POINT:** N.AP.**UEL:** N.AP.**LEL:** N.AP.**EVAPORATION RATE:** N.AP.**ODOR THRESHOLD:** N.AP**VAPOR PRESSURE:** N.AP**VAPOR DENSITY:** N.AP.**COEFF. OIL/WATER:** N.AP.**WATER SOLUBILITY:** MODERATE**OTHER:** N.AP.**10. STABILITY AND REACTIVITY****STABLE:** YES**CONDITIONS TO AVOID:** AVOID TEMPERATURES ABOVE 120°F.**MATERIALS TO AVOID:** AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING PRODUCT. AVOID ACIDS AND VARIOUS METALS (ALUMINUM, ZINC, TIN, BRASS OR BRONZE) WHICH CAN GENERATE FLAMMABLE HYDROGEN GAS. MIX ONLY WITH WATER.**DECOMPOSITION PRODUCTS:** FIRE OR MIXING WITH INCOMPATIBLE MATERIALS MAY PRODUCE OXIDES OF CARBON AND OTHER TOXIC OR IRRITATING FUMES.**POSSIBILITY OF HAZARDOUS REACTIONS:** AVOID MIXING DIRECTLY WITH ACIDS.**11. TOXICOLOGICAL INFORMATION****ACUTE EFFECTS:** CORROSIVE. SEE SECTION 2.**CHRONIC EFFECTS:** NONE KNOWN. NO REPORTABLE CARCINOGENS, MUTAGENS, SENSITIZERS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.**LC50/LD50:** SODIUM HYDROXIDE 50%: 220 MG/KG ORAL-RAT LD50

SODIUM HYDROXIDE: 1350 MG/KG DERMAL-RABBIT LD50

**TARGET ORGANS:** EYES, SKIN, RESPIRATORY SYSTEM.**OTHER TOXIC EFFECTS:** NONE KNOWN.

**12. ECOLOGICAL INFORMATION**

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NOT AVAILABLE.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** UNDILUTED PRODUCT IS REGULATED UNDER ENVIRONMENTAL AND TRANSPORTATION LAWS AS A CORROSIVE WASTE (RCRA CLASS D002). DISPOSE OF ACCORDING TO ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

**14. TRANSPORT INFORMATION**

**DOT/TDG:** SODIUM HYDROXIDE, SOLID, MIXTURE, 8, UN1823, II  
**DOT RQ:** N.AP.  
**DOT ERG #:** 154

**15. REGULATORY INFORMATION**

**EPA CERCLA RQ:** SODIUM HYDROXIDE = 1000 LB  
**EPA REGISTERED:** NO  
**EPA VOC:** 0.00%  
**EPA VOC RULE:** THIS PRODUCT DOES NOT CONTAIN VOLATILE ORGANIC COMPOUNDS.  
**OSHA HAZARDOUS:** YES  
**PHOSPHORUS CONTENT:** SEE LABEL  
**PROPOSITION 65:** N.AP.  
**SARA 311/312 HAZARDS:** ACUTE  
**SARA 313 CHEMICALS:** NO  
**STATE RIGHT TO KNOW:** SEE SECTION 3 FOR CHEMICAL NAMES.  
**TSCA INVENTORY STATUS:** ALL COMPONENTS ARE LISTED ON THE INVENTORY.  
**WHMIS CLASS:** E

**16. OTHER INFORMATION**

**NFPA RATING:** HEALTH-3/FLAMMABILITY-0/REACTIVITY-0/SPECIAL HAZARD-N.AP.  
**HMIS RATING:** HEALTH-3/FLAMMABILITY-0/REACTIVITY-0/PERSONAL PROTECTION-SEE 8.0

N.AV. = NOT AVAILABLE    N.AP. = NOT APPLICABLE

PREPARED BY: HEALTH AND SAFETY

**NOTICE TO READER**

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