1. PRODUCT AND COMPANY IDENTIFICATION

MAME: ENDURE USE: MECHANICAL DISH DETERGENT LABEL BRAND: US CHEMICAL MSDS # 102036 CODE # 057769

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 REVISED 4-11-10 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.

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

MEDICAL CONDITIONS AGGRAVATED: NONE KNOWN

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS#	% BY WT	LC60nLD50
SODIUM HYDROXIDE	1310-73-2	10.0 - 30.0	SEE 11.0
SODIUM DICHLORO-S-TRIAZINETRIONE	2893-78-9	1.0 - 5.0	N.AV.
SODIUM CARBONATE	497-19-8	30.0 - 60.0	N.AV.
STATE RIGHT TO KNOW: THIS PRODUCT CONTA CODIUM CARBONATE/197-19-8, SODIUM HYDROX ODIUM TRIPOLYPHOSPHATE/7755-29-4, SODIUM	take manager and a second	MCHLORIDE/7647-14 METRIONE/2893-78-9	1-5,

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION Page 3 of 4

EXPOSURE LIMITS:

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SODIUM HYDROXIDE = 2 MG/M3 CEILING LIMIT (ACGIH), 2 MG/M3 TWA (OSHA)
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SODIUM DICHLOROS-TRIAZINETRIONE = 0.5 PPM TWA AS CHLORINE, 1 PPM STEL AS CHLORINE (ACGIH),
1 PPM CEILING LIMIT (OSHA)
ENGINEERING CONTROLS: NONE REQUIRED, GENERAL ROOM VENTILATION IS TYPICALLY ADEQUATE.

PERSONAL PROTECTION

EYES: SPLASH PROOF SAFEY GLASSES, SAFETY GOGGLES AND AN EYE WASH STATION. HANDS: CHEMICAL RESISTANT GLOVES: RUBBER OR NEOPRENE, LONG TYPE IF NEEDED, RESPIRATORY: WEAR DUST MASK IF HANDLING CREATES AIR-BORNE DUST. REST: 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: WHITE FLASH POINT: N.AP. ODOR: CHLORINE pH CONCENTRATE: N.AP. UEL: N.AP. PH @ 250 PPM SOLUTION: 11.6 (BASIC)
PH @ USE DILUTION: N.AV.
PHYSICAL STATE: GRANULAR POWDER
SPECIFIC GRAVITY: N.AP.
VISCOSITY: 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 BOILING POINT: N.AP.
MELTING POINT: N.AP. OTHER: N.AP.

10. STABILITY AND REACTIVITY

STABLE: YES

CONDITIONS TO AVOID: AVOID TEMPERATURES ABOVE 120°F AND HIGH HUMIDITY TO

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 BELOW 150°F.

ECOMPOSITION 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. 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.

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4. FIRST AID MEASURES

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Page:
EYES: IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15-20 MINUTES, KEEPING EYELI
OPEN. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15-20 MINUTES, REMOVE AND
WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE.
IF SWALLOWED: RINSE MOUTH, GIVE A CUPFUL OF WATER OR MILK. THEN IMMEDIATELY CONT
A PHYSICIAN OR POISON CENTER, DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY
MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
INHALATION: IF BREATHING IS AFFECTED, REMOVE TO FRESH AIR.
ADMINISTER FIRST AD TREATMENT AS STATED ABOVE, THEN CALL 1-866-923-4913 OR CONTAC
PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.

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

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5. FIRE-FIGHTING MEASURES

FLAMMABILITY: NO HAZARD. FLASH POINT: N.AP

FLASH POINT: N.AP.
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. 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: EVACUATE UNPROTECTED PERSONNEL FROM AREA, WEAR PROPER PROTECTIVE EQUIPMENT. CAREFULLY SWEEP UP AND SHOVEL INTO DRY CONTAINERS WITHOU RAISING DUST. COVER CONTAINERS AND MOVE CONTAINERS OUT OF SPILL AREA, AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES.

7. HANDLING AND STORAGE

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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.

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12. ECOLOGICAL INFORMATION

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NOT AVAILABLE

13. DISPOSAL CONSIDERATIONS

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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 THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE. RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE

14. TRANSPORT INFORMATION

DOT/TDG: CORROSIVE SOLID, BASIC, INDRGAMC, N.O.S. (CONTAINS SODIUM HYDROXIDE), 8, UN3262, II DOT RQ: N.AP. DOT ERG #: 154

15. REGULATORY INFORMATION

EPA CERCLA RQ: SODIUM HYDROXIDE = 1000 LB EPA REGISTERED: NO 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. VOC: 0.00% MEETS THE EPA VOC EMISSIONS STANDARD AND TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1, SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508. WHMIS CLASS: E

16. OTHER INFORMATION

NEPA RATING: HEALTH-3/FLAMMABILITY-0/REACTIVITY-1/SPECIAL HAZARD-N.AP. HIMIS RATING: HEALTH-3/FLAMMABILITY-0/REACTIVITY-1/PERSONAL PROTECTION-SEE 8.0.

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

PREPARED BY: HEALTH AND SAFETY

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