

SAFETY DATA SHEET

Page 1 of 4

1. IDENTIFICATION**PRODUCT NAME: FAILSAFE****RECOMMENDED USE: MECHANICAL DISH DETERGENT****RESTRICTIONS ON USE: DO NOT USE IN A MANNER INCONSISTENT WITH THE LABEL.****LABEL BRAND: U S CHEMICAL****SDS 101865 CODE 057466**

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 USA (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)

INTERNET ADDRESS: WWW.USCHEMICAL.COM

2. HAZARD(S) IDENTIFICATION**CLASSIFICATION: SKIN CORROSION (CATEGORY 1B), EYE DAMAGE (CATEGORY 1)****ACUTE TOXICITY: ORAL (CATEGORY 4)****LABEL ELEMENTS****SIGNAL WORD: DANGER****PICTOGRAMS: CORROSION, EXCLAMATION MARK****HAZARD STATEMENTS: CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE.****HARMFUL IF SWALLOWED.**

PRECAUTIONARY STATEMENTS: Wear chemical-splash safety goggles, chemical-resistant protective gloves and protective footwear. Avoid contact with eyes, skin and clothing. Do not breathe dusts. Do not eat, drink, or smoke when using this product. Wash hands and affected areas thoroughly after handling. Mix slowly only with unheated water. Reacts exothermically on contact with water. **DO NOT MIX WITH ACIDS OR ANY OTHER CHEMICAL.** Can react to release chlorine gas.

FIRST AID: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. **IF ON SKIN (OR HAIR):** Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. Wash contaminated clothing before reuse. **IF SWALLOWED:** Rinse mouth. Call a Poison Center or physician if you feel unwell. **Do NOT induce vomiting.** If conscious, dilute by drinking up to a cupful of milk or water as tolerated. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing.

START FIRST AID. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.**EMERGENCY TELEPHONE: 1-866-923-4913****Storage:** Keep container tightly closed. Store locked up.**Disposal:** Dispose of contents in accordance with all federal, state and local applicable laws and regulations.**KEEP OUT OF REACH OF CHILDREN. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.****HAZARDS NOT OTHERWISE CLASSIFIED:** Not applicable.**3. COMPOSITION / INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENT(S)	CAS #	WEIGHT %
SODIUM HYDROXIDE	1310-73-2	34.0
SODIUM CARBONATE	497-19-8	32.8
TETRASODIUM PYROPHOSPHATE	7722-88-5	2.7
SODIUM DICHLORO-S-TRIAZINETRIONE	2893-78-9	1.6

STATE RIGHT TO KNOW: SEE SECTION 15 FOR STATE RTK CHEMICAL NAMES IN MIXTURE.**INGREDIENT DISCLOSURE:** FOR MORE INGREDIENT INFORMATION VISIT www.uschemical.com

4. FIRST-AID MEASURES

Page 2 of 4

IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING FOR AT LEAST 15 MINUTES.

IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER FOR AT LEAST 15 MINUTES. WASH CONTAMINATED CLOTHING BEFORE REUSE.

IF SWALLOWED: RINSE MOUTH. CALL A POISON CENTER OR PHYSICIAN IF YOU FEEL UNWELL. **DO NOT** INDUCE VOMITING. IF CONSCIOUS, DILUTE BY DRINKING UP TO A CUPFUL OF MILK OR WATER AS TOLERATED.

IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

START FIRST AID. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

EMERGENCY TELEPHONE: 1-866-923-4913

MOST IMPORTANT SYMPTOMS / EFFECTS: CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. MAY CAUSE BLINDNESS WITHOUT IMMEDIATE FIRST AID. HARMFUL IF SWALLOWED. CAUSES BURNS AND SERIOUS DAMAGE TO MOUTH, THROAT AND STOMACH. CORROSIVE TO ALL BODY TISSUES.

MEDICAL CONDITIONS AGGRAVATED: NONE KNOWN.

NOTE TO PHYSICIAN: CALL 1-866-923-4913 FOR EXPOSURE MANAGEMENT ASSISTANCE.

5. FIRE-FIGHTING MEASURES

CHEMICAL HAZARDS: CORROSIVE. NON-FLAMMABLE.

COMBUSTION PRODUCT HAZARDS: OXIDES OF CARBON AND OTHER FUMES.

METHODS: SELECT EXTINGUISHER AND METHODS BASED ON FIRE SIZE AND TYPE.

EQUIPMENT: WEAR SCBA AND FULL PROTECTIVE GEAR AS CONDITIONS WARRANT.

NFPA RATING: HEALTH-3/FLAMMABILITY-0/ INSTABILITY-1/SPECIAL HAZARD-N.AP.

SUITABLE EXTINGUISHERS: WATER, DRY CHEMICAL, CO₂ OR FOAM SUITABLE FOR FIRE.

UNSUITABLE EXTINGUISHERS: NO RESTRICTIONS BASED ON CHEMICAL HAZARDS.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: EVACUATE UNPROTECTED PERSONNEL FROM AREA.

WEAR PERSONAL PROTECTION INCLUDING RUBBER BOOTS. SEE SECTION 8. VENTILATE AREA IF NEEDED. BE CAREFUL NOT TO SLIP. WASH THOROUGHLY AFTER CLEAN-UP.

ENVIRONMENTAL PRECAUTIONS: PREVENT SPILL FROM ENTERING DRAIN, STORM SEWER OR SURFACE WATERWAY. PREVENT WATER AND SOIL CONTAMINATION.

CLEAN-UP METHODS: CAREFULLY SWEEP UP AND SHOVEL INTO DRY LABELED CONTAINERS WITHOUT RAISING DUST. MOVE CONTAINERS OUT OF SPILL AREA. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES.

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 REUSE. PRODUCT RESIDUE MAY REMAIN IN EMPTY CONTAINERS. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

STORAGE: KEEP CONTAINER TIGHTLY CLOSED. STORE LOCKED UP. STORE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT. ROTATE STOCK REGULARLY. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Page 3 of 4

EXPOSURE LIMITS: SODIUM CARBONATE = NONE, TETRASODIUM PYROPHOSPHATE = NONE
SODIUM HYDROXIDE = 2 MG/M3 CEILING LIMIT (ACGIH), 2 MG/M3 TWA (OSHA)
SODIUM DICHLORO-S-TRIAZINETRIONE = 0.5 PPM TWA AS CHLORINE, 1 PPM STEL AS CHLORINE(ACGIH),
1 PPM CEILING LIMIT (OSHA)

ENGINEERING CONTROLS: GENERAL ROOM VENTILATION IS TYPICALLY ADEQUATE.

PERSONAL PROTECTION

EYES: CHEMICAL-SPASH SAFETY GOGGLES.

HANDS: CHEMICAL-RESISTANT PROTECTIVE GLOVES (NITRILE, NEOPRENE OR RUBBER).

RESPIRATORY: WEAR DUST MASK IF HANDLING CREATES AIR-BORNE DUST.

FEET: PROTECTIVE FOOTWEAR.

BODY: SUITABLE PROTECTIVE CLOTHING.

HYGIENE MEASURES: HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE. WASH HANDS AND Affected AREAS THOROUGHLY AFTER HANDLING. PROVIDE SUITABLE FACILITIES FOR QUICK DRENCHING OR FLUSHING OF THE EYES AND BODY IN CASE OF CONTACT OR SPLASH HAZARD.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: WHITE POWDER

ODOR: SLIGHT CHLORINE

pH CONCENTRATE: N.A.P.

pH READY-TO-USE: N.A.P.

pH @ USE DILUTION: 12.3 (BASIC)

PHYSICAL STATE: GRANULAR POWDER

RELATIVE DENSITY (WATER): N.A.V.

SOLUBILITY (WATER): MODERATE

VAPOR PRESSURE: N.A.V.

VAPOR DENSITY: N. AV.

VISCOOSITY: N.A.P.

AUTO-IGNITION TEMPERATURE: N.A.V.

DECOMPOSITION TEMPERATURE: N.A.V.

EXPLOSIVE LIMITS (LEL/UEL): NONE

EVAPORATION RATE: N.A.V.

FLAMMABILITY (SOLID, GAS): N.A.P.

FLASH POINT: NONE

INITIAL BOILING POINT/RANGE: N.A.V.

MELTING POINT/FREEZING POINT: N.A.V.

ODOR THRESHOLD: N.A.V.

PARTITION COEFF. (N-OCTANOL/WATER): N.A.V

OTHER: N.A.V.

10. STABILITY AND REACTIVITY

REACTIVITY: MIXING WITH INCOMPATIBLES CAN RELEASE HEAT + HAZARDOUS GASES.

CHEMICAL STABILITY: STABLE.

POSSIBILITY OF HAZARDOUS REACTIONS: SEE REACTIVITY. WILL NOT POLYMERIZE.

CONDITIONS TO AVOID: TEMPERATURES ABOVE 120°F (49°C) AND HIGH HUMIDITY.

MATERIALS TO AVOID: ACIDS, AMMONIA, METALS AND OTHER CHEMICALS.

MIX ONLY WITH WATER.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE UNDER NORMAL CONDITIONS.

11. TOXICOLOGICAL INFORMATION

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

INFORMATION ON ROUTES OF EXPOSURE: NO LC50/LD50 TEST DATA ON MIXTURE.

ACUTE EFFECTS /SYMPTOMS: CORROSIVE TO ALL BODY TISSUES.

EYES: CAUSES SERIOUS EYE DAMAGE. MAY CAUSE PAIN, REDNESS AND WATERING.

SKIN: CAUSES SEVERE SKIN BURNS. MAY CAUSE DELAYED PAIN, REDNESS AND BLISTERING.

INGESTION: CAUSES BURNS AND SERIOUS DAMAGE TO MOUTH, THROAT AND STOMACH.

INHALATION: MAY CAUSE CORROSIVE EFFECTS TO NOSE, THROAT, AND RESPIRATORY SYSTEM.

CHRONIC / OTHER EFFECTS: NO REPORTABLE GERM CELL MUTAGENS, SKIN SENSITIZERS, RESPIRATORY SENSITIZERS, REPRODUCTIVE TOXINS OR ASPIRATION HAZARDS.

SPECIFIC TARGET ORGANS (SINGLE/REPEATED): NONE KNOWN.

NUMERICAL MEASURES OF TOXICITY: ATEmix (ORAL-RAT) = 1400 MG / KG

CARCINOGENS: NO REPORTABLE ACGIH, IARC, NTP, OR OSHA CARCINOGENS.

12. ECOLOGICAL INFORMATION

Page 4 of 4

ECOLOGICAL INFORMATION: OSHA WILL NOT BE ENFORCING INFORMATION REQUIREMENTS IN SECTION 12, AS THIS AREA IS NOT UNDER ITS JURISDICTION.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: RCRA HAZARD CLASS (UNDILUTED PRODUCT): NOT APPLICABLE. DISPOSE OF CONTENTS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL APPLICABLE 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. SEE SECTION 8 FOR EXPOSURE CONTROLS/PERSONAL PROTECTION TO MINIMIZE EXPOSURE.

14. TRANSPORT INFORMATION

DOT / IMDG / TDG:

UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, II

15. REGULATORY INFORMATION

EPA CERCLA RQ: SODIUM HYDROXIDE = 1000 LB.

EPA REGISTERED: NO

OSHA HAZARDOUS: YES. SEE SECTION 8 TO MINIMIZE EXPOSURE.

PHOSPHORUS CONTENT: SEE LABEL

PROPOSITION 65: NO

SARA 311/312 HAZARD CATEGORIES: SEE SECTION 2 FOR GHS HAZARD CLASSES.

SARA 313 CHEMICALS: NO

STATE RIGHT TO KNOW: SODIUM HYDROXIDE/1310-73-2, SODIUM CARBONATE/497-19-8, SODIUM TRIPOLYPHOSPHATE/7758-29-4, TETRASODIUM PYROPHOSPHATE/7722-88-5, SODIUM DICHLORO-S-TRIAZINETRIONE/2893-78-9

TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.

USE DILUTION (1:384 or 2600 ppm): NO PPE OR SDS REQUIRED AT PROPER USE DILUTIONS.

VOC: 0.00% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.

16. OTHER INFORMATION

PREPARATION DATE: 2-5-24 **PREPARED BY:** RC

REVISED SECTION: 16

ABBREVIATIONS: N.A.V. = NOT AVAILABLE

N.A.P. = NOT APPLICABLE

NOTICE TO READER

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