

1. PRODUCT AND COMPANY IDENTIFICATION

NAME: SANITIZER E.S.
 USE: CHLORINE SANITIZER
 LABEL BRAND: U S CHEMICAL
 MSDS # 100068U CODE # 057443, 057445, 3517312, 5341373

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
 REVIEWED 11-16-10 REVISED 11-16-10 SECTION REVISED: 1

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
 DANGER. CORROSIVE LIQUID. 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 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 HYPOCHLORITE	7681-52-9	6.4	SEE 11.0

STATE RIGHT TO KNOW: EXEMPT

SANITIZER E.S.

MSDS # 100068U

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:
 SODIUM HYPOCHLORITE = 0.5 PPM TWA AS CHLORINE, 1 PPM STEL AS CHLORINE (ACGIH),
 1 PPM CEILING LIMIT AS CHLORINE (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: IF MISTS/VAPORS ARE NOT CONTROLLED BY VENTILATION, WEAR SUITABLE RESPIRATOR.
 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: YELLOW
 ODOR: CHLORINE
 pH CONCENTRATE: GREATER THAN 12.0 (BASIC)
 pH @ 2500 PPM SOLUTION: N.A.P.
 pH @ USE DILUTION: N.A.P.
 PHYSICAL STATE: LIQUID
 SPECIFIC GRAVITY: 1.104
 VISCOSITY: NON-VISCOUS
 BOILING POINT: N.A.P.
 MELTING POINT: N.A.P.

FLASH POINT: N.A.P.
 UEL: N.A.P.
 LEL: N.A.P.
 EVAPORATION RATE: N.A.P.
 ODOR THRESHOLD: N.A.P.
 VAPOR PRESSURE: N.A.P.
 VAPOR DENSITY: N.A.P.
 COEFF. OIL/WATER: N.A.P.
 WATER SOLUBILITY: COMPLETE
 OTHER: N.A.P.

10. STABILITY AND REACTIVITY

STABLE: YES
 CONDITIONS TO AVOID: AVOID TEMPERATURES BELOW 35°F OR ABOVE 120°F.

MATERIALS TO AVOID: AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING PRODUCT. AVOID ACIDS, AMMONIA AND VARIOUS METALS (ALUMINUM, ZINC, TIN, BRASS OR BRONZE) WHICH CAN GENERATE FLAMMABLE HYDROGEN GAS. MIX ONLY WITH WATER, UNLESS RTU.

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 HYPOCHLORITE: 8200 MG/KG ORAL-RAT LD50
 TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM.
 OTHER TOXIC EFFECTS: NONE KNOWN.

4. FIRST AID MEASURES

EYES: HOLD EYE OPEN AND RINSE SLOWLY AND GENTLY WITH WATER FOR 15 - 20 MINUTES. REMOVE CONTACT LENSES, IF PRESENT, AFTER FIRST FIVE MINUTES, THEN CONTINUE RINSING EYE FOR 15 - 20 MINUTES.
 SKIN: TAKE OFF CONTAMINATED CLOTHING. RINSE SKIN IMMEDIATELY WITH PLENTY OF WATER FOR 15 - 20 MINUTES.
 INHALATION: MOVE PERSON TO FRESH AIR. IF PERSON IS NOT BREATHING, CALL 911 OR AN AMBULANCE. THEN GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH, IF POSSIBLE.
 INGESTION: HAVE PERSON SIP A GLASS OF WATER IF ABLE TO SWALLOW. DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO BY A POISON CONTROL CENTER OR DOCTOR. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
 ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-866-923-4913 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS. HAVE THE PRODUCT CONTAINER OR LABEL WITH YOU WHEN CALLING POISON CENTER OR DOCTOR OR GOING FOR TREATMENT.
 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.
 SPECIFIC METHODS: NORMAL FIRE FIGHTING PROCEDURES MAY BE USED.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
 SEE SECTION 8. CORROSIVE. PUT ON PERSONAL PROTECTIVE EQUIPMENT.
 SPILL RESPONSE: EVACUATE UNPROTECTED PERSONNEL FROM AREA. WEAR PROPER PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS. VENTILATE AREA IF NEEDED. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DIKE OR DAM LARGE SPILLS. AVOID DIRECT DISCHARGE TO SEWER AND SURFACE WATERS. PUMP OR SCOOP TO CONTAINER OR SOAK UP WITH NON-COMBUSTIBLE INERT ABSORBENT MATERIALS. IF SPILL COLLECTION 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 BELOW 35°F OR ABOVE 120°F. PROTECT FROM FREEZING. 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.

SANITIZER E.S.

MSDS # 100068U

12. ECOLOGICAL INFORMATION

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/IDG: HYPOCHLORITE SOLUTION, 8, UN1791, III
 DOT RQ: 100 LB AS SODIUM HYPOCHLORITE
 DOT ERG #: 154

15. REGULATORY INFORMATION

EPA CERCLA RQ: SODIUM HYPOCHLORITE = 100 LB.
 EPA REGISTERED: YES
 OSHA HAZARDOUS: YES
 PHOSPHORUS CONTENT: 0.00%
 PROPOSITION 65: N.A.P.
 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% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.

16. OTHER INFORMATION

NFPA RATING: HEALTH-3/FLAMMABILITY-0/REACTIVITY-1/SPECIAL HAZARD-N.A.P.
 HMIS RATING: HEALTH-3/FLAMMABILITY-0/REACTIVITY-1/PERSONAL PROTECTION-SEE 8.0
 N.A.V. = NOT AVAILABLE N.A.P. = NOT APPLICABLE PREPARED BY: HEALTH AND SAFETY

NOTICE TO READER

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE FOR EVALUATING ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.