

MATERIAL SAFETY DATA SHEET

IDENTITY - #113 CHLORI SAN SANITIZER

SECTION 1

MANUFACTURER'S NAME	ARROW CHEMICAL PRODUCTS, INC.
ADDRESS	2067 STE. ANNE DETROIT, MI 48216
EMERGENCY TELEPHONE	INFOTRAC 1-800-535-5035
TELEPHONE FOR INFORMATION	313-237-0277
DATE REVISED	7-27-99

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS # 7681-52-9 SODIUM HYPOCHLORITE <13%
OSHA PEL: NOT ESTABLISHED ACGIH TLV: NOT ESTABLISHED

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 219 F/104 C
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
SPECIFIC GRAVITY: 1.224 @ 20 C
MELTING POINT: NO DATA
pH 12.5- 13.5
SOLUBILITY IN WATER: COMPLETE
APPEARANCE AND ODOR: AMBER, CHLORINE ODOR

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA - FLOOD WITH WATER OR CARBON DIOXIDE.
SPECIAL FIRE FIGHTING PROCEDURES - USE NIOSH APPROVED RESPIRATOR WITH ACID TYPE CANISTER OR USE SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSION HAZARDS - MATERIAL IS A STRONG OXIDIZER. CONTACT WITH COMBUSTIBLES MAY INITIATE OR PROMOTE COMBUSTION. ACID AND HEAT ACCELERATE DECOMPOSITION. DECOMPOSITION PRODUCTS MAY INCLUDE CHLORINE.

SECTION 5 - REACTIVITY DATA

STABILITY: FAIRLY STABLE UNDER NORMAL USE AND STORAGE CONDITIONS. STABILITY DECREASES WITH CONCENTRATION, HEAT, LIGHT, EXPOSURE, DECREASE IN pH, AND EXPOSURE TO HEAVY METALS. STRONG OXIDIZING AGENT.
CONDITIONS TO AVOID:
INCOMPATIBILITY (MATERIALS TO AVOID): ACIDS, AMMONIA, ALCOHOLS, AMINES, CHLORINATED ISOCYANURATES, CYANIDES, DETERGENTS, ETHERS, HYDROCARBONS, OXIDIZABLE MATERIALS, ORGANIC COMPOUNDS, HEAVY METALS AND HOUSEHOLD CHEMICALS SUCH AS TOILET BOWL CLEANERS, RUST REMOVERS, VINEGAR AND ACIDS.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: HYPOCHLOROUS ACID (HOCl), CHLORINE, HYDROCHLORIC ACID. ADDITIONAL DECOMPOSITION PRODUCTS, WHICH DEPEND UPON pH, TEMPERATURE AND TIME, ARE SODIUM CHLORIDE, SODIUM CHLORATE AND OXYGEN.

SECTION 6 - HEALTH HAZARD DATA

UNDER NORMAL CONSUMER USE AND CONDITIONS THE LIKELIHOOD OF ANY ADVERSE HEALTH EFFECTS ARE LOW.
CARCINOGENICITY: NTP, IARC MONOGRAPHS, OSHA REGULATED? NO
SIGNS AND SYMPTOMS OF EXPOSURE - SKIN AND EYE IRRITANT
EMERGENCY AND FIRST AID PROCEDURES:
EYES: FLOOD WITH COLD WATER FOR AT LEAST 15 MINUTES. SEEK PROMPT MEDICAL ATTENTION.
SKIN: WASH WITH PLENTY OF SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.
SWALLOWING: DRINK LARGE QUANTITIES OF MILK, EGG WHITES OR GELATIN SOLUTION. IF NONE ARE AVAILABLE, DRINK PLENTY OF WATER. DO NOT INDUCE VOMITING. DO NOT GIVE VINEGAR OR OTHER ACIDS. SEEK PROMPT MEDICAL ATTENTION.
INHALATION: IF BREATHING PROBLEMS DEVELOP, MOVE TO FRESH AIR, SEEK PROMPT MEDICAL ATTENTION IF EXPOSURE IS SEVERE.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED - CLEANUP PERSONNEL MUST WEAR PROPER PROTECTIVE EQUIPMENT. CONTAIN SPILL IN DIKED AREA. NEUTRALIZE WITH SODIUM BISULFITE OR FERROUS SALT SOLUTIONS. PLACE NEUTRALIZED MATERIAL IN DOT SPECIFICATION APPROVED CONTAINERS. FLUSH AREA WITH LARGE AMOUNTS OF WATER. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REPORTING REQUIREMENTS.
WASTE DISPOSAL METHOD - CONTACT FEDERAL, STATE, COUNTY, AND LOCAL ENVIRONMENTAL REGULATORS FOR GUIDANCE REGARDING PROPER DISPOSAL.
PRECAUTIONS FOR SAFE HANDLING AND USE - KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. CORROSIVE, MAY CAUSE SEVERE SKIN IRRITATION OR CHEMICAL BURNS TO BROKEN SKIN. CAUSES EYE DAMAGE. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. WEAR GOGGLES OR FACE SHIELD AND RUBBER GLOVES WHEN HANDLING THIS PRODUCT. WASH AFTER HANDLING. AVOID BREATHING VAPORS. DO NOT USE IN POORLY VENTILATED AREAS.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION - USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR THIS PRODUCT WHEN PERMISSIBLE EXPOSURE LIMITS ARE EXCEEDED.
VENTILATION - USE IN WELL VENTILATED AREA.
PROTECTIVE GLOVES - RUBBER OR NEOPRENE.
EYE PROTECTION - CHEMICAL GOGGLES AND FACE SHIELD.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT - RUBBER SPLASH APRON AND RUBBER BOOTS.
SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE NEARBY. AVOID EYE AND SKIN CONTACT. AVOID INHALATION OF VAPOR OR MIST.

D.O.T. SHIPPING INFORMATION - HYPOCHLORITE SOLUTIONS, 8, UN1791, PGIII.