

MATERIAL SAFETY DATA SHEET

APRIL 1, 1987

CHEMICAL NAME: SODIUM HYPOCHLORITE 5 1/4 %

SYNONYMS: HOUSEHOLD BLEACH, LAUNDRY BLEACH, ALL PURE BLEACH, ALL PRO BLEACH, PRIVATE LABEL BLEACH

FORMULA: NaOCl SOLUTION

TRADE NAME AND SYNONYM: GENERIC BLEACH

CHEMICAL FAMILY: HALOGEN COMPOUND

CAS #: 7681529

SECTION 1 - MANUFACTURER OR SUPPLIER

EMERGENCY NUMBER

ALL PURE CHEMICAL COMPANY, P.O. BOX 258, TRACY, CA 95376-0268
(209) 835-5423

SECTION 2 - PHYSICAL DATA

<u>PHYSICAL STATE AT STP: LIQUID</u>	<u>APPEARANCE & ODOR: YELLOW, CHLORINE ODOR</u>
<u>BOILING POINT: DECOMPOSES</u>	<u>PERCENT VOLATILE: 95%</u>
<u>SPECIFIC GRAVITY: 1.09</u>	<u>VAPOR PRESSURE: 17.5 mm Hg</u>
<u>VAPOR DENSITY: NOT PERTINENT</u>	<u>SOLUBILITY IN WATER: COMPLETE</u>
<u>EVAPORATION RATE (WATER = 1): 1</u>	

SECTION 3 - HAZARDOUS COMPONENTS

<u>MATERIAL & PERCENT:</u>	<u>CAS #:</u>	<u>UN/NA #:</u>	<u>CARCINOGEN:</u>	<u>PEL:</u>
SODIUM HYPOCHLORITE 5.25%	7681-32-9	NA1731	NOT CARCINOGEN	NONE

SCOT SUPPLY INC.
EUGENE 342-5473
SALE 581-8733

SECTION 4 - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: NON FLAMMABLE AUTOIGNITION TEMP: NOT PERTINENT

FLAMMABLE LIMITS IN AIR (% BY VOLUME): LOWER UPPER

NOT PERTINENT

EXTINGUISHING MEDIA TO BE USED: USE EXTINGUISHING AGENT SUITABLE FOR SURROUNDING STRUCTURES AND MATERIALS. SMALL FIRES: DRY CHEMICAL, CO₂ SPRAY OR FOAM (DO NOT USE ORGANIC FOAMS). LARGE FIRES: WATER SPRAY, FOG OR FOAM (NO ORGANIC FOAMS).

SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING UNIT; FULL PROTECTIVE GEAR. COOL EXPOSED CONTAINERS WITH WATER; REMOVE EXPOSED CONTAINERS FROM FIRE AREA TO AVOID PRESSURE RUPTURE, IF SAFELY POSSIBLE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: HEAT OF FIRE MAY CAUSE RELEASE OF CHLORINE. AVOID CONTACT OF LIQUID WITH ACIDS, ORGANICS AND METALS TO AVOID VIOLENT REACTIONS AND POSSIBLE HAZARDOUS GAS GENERATION.

N.F.P.A. HAZARD CLASSIFICATION

HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 2

SECTION 5 - HEALTH HAZARD DATA

TOXICITY DUE TO ALKALINITY. POSSIBLE CHLORINE GENERATION AND OXIDANT PROPERTIES. THRESHOLD LIMIT VALUE (TLV): (TWA): NONE (STEL): NONE

ROUTE(S) OF ENTRY: MIST OR EVOLVED CHLORINE MAY BE INHALED; LIQUID MAY BE INGESTED. NO SYSTEMIC ABSORPTION BY SKIN OR EYE CONTACT — LOCAL EFFECTS ONLY.

EFFECTS OF OVEREXPOSURE: TISSUE IRRITANT; TOXIC BY INGESTION. SKIN AND EYE IRRITATION BY LOCAL CONTACT. GENERALIZED RESPIRATORY SYMPTOMS UPON INHALATION DUE TO IRRITATION, INCLUDING COUGH AND DIFFICULTY BREATHING; MAY POSSIBLY LEAD TO LATER EFFECTS. INGESTION WILL CAUSE BURNING OF MOUTH, MAY CAUSE PERFORATION OF ESOPHAGUS AND STOMACH AND LARYNGEAL EDEMA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: LOCAL SKIN OR EYE IRRITATION MAY BE AGGRAVATED BY CONTACT. RESPIRATORY TRACT CONDITIONS MAY BE AGGRAVATED BY INHALATION. SYSTEMIC EFFECTS OF INGESTION MAY AGGRAVATE OTHER CONDITIONS.

EMERGENCY AND FIRST AID: OBTAIN MEDICAL ATTENTION IMMEDIATELY AFTER FIRST-AID MEASURES FOR ANY EYE CONTACT, INGESTION OR INHALATION. EYE CONTACT: FLUSH EYES WITH CLEAR WATER FOR AT LEAST 15 MINUTES (INCLUDING UNDER EYELIDS). INGESTION: HAVE PHYSICIAN CONTACTED IMMEDIATELY. RINSE MOUTH WITH WATER; GIVE LARGE QUANTITIES OF WATER OR MILK TO DRINK AND INDUCE VOMITING. REPEAT. INHALATION: REMOVE TO FRESH AIR; SUPPORT BREATHING AS NEEDED. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREAS WITH LARGE AMOUNTS OF WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS OR LARGE AREAS OF BODY ARE AFFECTED.

BLEACH, 5 1/4 %

#4018

SECTION 6 - REACTIVITY DATA

STABILITY: UNSTABLE: STABLE: XXX
CONDITIONS TO AVOID: HEAT AND LIGHT. EXTREME HEAT MAY CAUSE LIBERATION OF CHLORINE GAS.

INCOMPATIBILITIES (MATERIALS TO AVOID): ACIDS (INCLUDING ACIDIC CLEANING AGENTS SUCH AS BOWL CLEANERS CONTAINING BISULFATES) AND ORGANIC MATERIALS, UREA AND AMMONIA. METALS SUCH AS NICKEL, TIN, COPPER, MANGANESE AND IRON.

HAZARDOUS DECOMPOSITION PRODUCTS: CHLORINE MAY BE RELEASED ON CONTACT WITH ACIDS, AND WHEN HEATED.

HAZARDOUS POLYMERIZATION: MAY OCCUR: NEVER WILL NOT OCCUR: XXX

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF SPILL OCCURS: PROVIDE CLEANUP PERSONNEL WITH PROTECTION AGAINST INHALATION OF MISTS OR VAPORS AND SKIN OR EYE CONTACT. CONTAIN SPILL. DO NOT USE COMBUSTIBLE ABSORBENTS SUCH AS SAWDUST FOR ABSORPTION. KEEP CONCENTRATED MATERIAL OUT OF SEWERS, WATERWAYS AND GROUND WATER. SMALL SPILLS CAN BE DILUTED WITH LARGE AMOUNTS OF WATER AND FLUSHED TO SANITARY SEWER.

WASTE DISPOSAL METHODS: CAN BE NEUTRALIZED WITH WEAK REDUCING AGENTS SUCH AS SODIUM SULFITE, BISULFITE, OR THIOSULFITE (DO NOT USE SULFATES OR BISULFATES). RESIDUE SHOULD BE PLACED IN DOT WASTE CONTAINER AND DISPOSED OF IN A LICENSED LANDFILL SITE. IN EMERGENCY, EVEN LARGE SPILLS CAN BE THOROUGHLY DILUTED AND FLUSHED TO SEWER, WITH PERMISSION OF LOCAL AUTHORITIES.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: SELF-CONTAINED BREATHING APPARATUS IN A FIRE. IF IRRITATION IS NOTED AMONG EXPOSED WORKERS, PROVIDE CANISTER-TYPE RESPIRATORS SUITABLE FOR CHLORINE (WITH MIST FILTERS) UNTIL ENGINEERING CONTROLS CAN BE INSTITUTED.

NATURAL:

SUFFICIENT UNDER NORMAL CONDITIONS.

PROTECTIVE GLOVES:

PVC, RUBBER OR NEOPRENE.

MECHANICAL:

PROVIDE LOCAL AND GENERAL EXHAUST IF IRRITATION NOTED.

EYE PROTECTION:

CHEMICAL GOGGLES OR FACE SHIELD.

OTHER PROTECTIVE EQUIPMENT: USE RUBBER BOOTS AND APRONS AND OTHER PROTECTIVE CLOTHING NEEDED TO PREVENT SKIN CONTACT. AREAS OF HANDLING AND USE SHOULD HAVE EYEWASH STATIONS, EMERGENCY SHOWERS, AND WASHING FACILITIES.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONARY LABELLING: STORE IN COOL, DRY, CONTAINED AREA AWAY FROM SUNLIGHT AND HEAT. DO NOT STORE WITH ACIDS OR OXIDIZABLE MATERIALS. STORE WITH VENTED ENCLOSURES. REMOVE CLOSURES SLOWLY. DO NOT MIX WITH OTHER CHEMICALS.

OTHER HANDLING AND STORAGE CONDITIONS: WASH THOROUGHLY AFTER HANDLING. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES; RINSE CONTAINERS SEVERAL TIMES BEFORE DISPOSING OF THEM AND FLUSH RINSE WATER TO SANITARY SEWER. DO NOT MIX WITH FECES, URINE, AMMONIA, ACIDS, DETERGENTS, OR OTHER POOL OR CLEANING AGENTS -- HAZARDOUS GASES MAY BE EVOLVED.

SECTION 10

U.S. DEPARTMENT OF TRANSPORTATION (D.O.T.) SHIPPING INFORMATION

PROPER SHIPPING NAME: HYPOCHLORITE SOLUTIONS CONTAINING LESS THAN 7% AVAILABLE CHLORINE.

IDENTIFICATION NUMBER: NA 1791

HAZARD CLASS: 034-B

LABELS REQUIRED: NONE.