



Manufacturers of Carpet Cleaning Equipment,
Chemicals, and Janitorial Supplies.
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MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

DATE: JUNE 7, 1990

PRODUCT NAME: XL-44

SUPERSEDES: ALL PREVIOUS

PRODUCT NUMBER: 2009

PG 1/2

SECTION I - EMERGENCY CONTACTS

NAMCO MANUFACTURING INC. (713) 932-8293 OR (800) 634-5816

POISON CENTER: (800) 764-7661

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES: SODIUM HYPOCHLORITE IS MANUFACTURED ONLY IN SOLUTION FORM. "HOUSEHOLD BLEACH" CONTAINS NOT MORE THAN 7% AVAILABLE CHLORINE (=6.67wtNaOCL) WITH ABOUT 0.3 TO 0.5% EXCESS NaOH FOR STABILITY CONTROL. "INDUSTRIAL BLEACH" CONTAINS FROM 7% TO 15% AVAILABLE CHLORINE (6.67-13.06 wt.% NaOCL) WITH ABOUT 0.05 TO 0.85% EXCESS NaOH FOR STABILITY CONTROL.

SECTION III - PHYSICAL DATA

CHEMICAL NAME & SYNONYMS: CAUSTIC SODA & SODIUM HYPOCHLORITE

CHEMICAL FAMILY: OXIDIZING AGENT

BOILING POINT: 760 mm Hg DECOMPOSES, 110° C FOR 15% NaOCL

VAPOR PRESSURE (mm Hg): VAPOR PRESSURE OF WATER PLUS DECOMPOSITION PRODUCT

SOLUBILITY IN WATER: COMPLETE

SPECIFIC GRAVITY (H₂O = 1) 50gPL-1.08: 100gPL-1.14: 140gPL-1.21

MELTING POINT: N/A

FREEZING POINT: -15° F (12.5%)

PERCENT VOLATILE BY VOLUME: VARIABLE-WATER VAPOR PLUS DECOMPOSITION PRODUCT

APPEARANCE & ODOR - LIGHT YELLOW GREEN WITH PUNGENT LIKE CHLORINE

SECTION IV - FIRE & EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: FLOOD WITH WATER OR CARBON DIOXIDE (CO₂)

SPECIAL FIRE FIGHTING PROCEDURES: AVOID FUMES FROM SPILLED OR EXPOSED LIQUID, DILUTE COPIOUSLY, VENTILATE AND BE PREPARED TO USE RESPIRATORY PROTECTION IF NEEDED. ACID CONTAMINATION WILL PRODUCE VERY IRRITATING FUMES SIMILAR TO CHLORINE GAS. USE NIOSH CERTIFIED GAS MASK OR USE SELF CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE & EXPLOSION HAZARDS: BLEACH DECOMPOSES WHEN HEATED, DECOMPOSITION PRODUCTS MAY CAUSE CONTAINERS TO RUPTURE OR EXPLODE, VIGOROUS REACTION POSSIBLE WITH ORGANIC MATERIALS OR OXIDIZING AGENTS, MAY RESULT IN FIRE.

SECTION V - REACTIVITY DATA -

STABILITY: UNSTABLE CONCENTRATION: 1%, STABLE CONCENTRATION: 1%

INCOMPATIBILITY (MATERIALS TO AVOID): AVOID CONTAMINATION WITH HEAVY METALS (ACT AS A CATALYST) REDUCING AGENTS: ORGANICS, ETHER & AMMONIA ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: HYPOCHLOROUS ACID (HOCL) CHLORINE, HYDROCHLORIC ACID, SODIUM CHLORIDE, SODIUM CHLORATE AND OXYGEN WHICH DEPEND ON pH, TEMPERATURE AND TIME.

CONDITIONS TO AVOID: STABILITY DECREASES WITH CONCENTRATION, HEAT & LIGHT EXPOSURE. DECREASE pH AND CONTAMINATION WITH HEAVY METALS, SUCH AS NICKEL, COBALT, COPPER AND IRON.

HEALTH : 0
FIRE : 0
REACTIVITY : 0
SPECIAL : 0

SECTION VI - SPILL OR LEAK PROCEDURES -

SPILL OR RELEASE CONTROLS - NEUTRALIZE WITH SODIUM SULFITE, BISULFITE OR FERROUS SALT SOLUTION. FLUSH WITH WATER TO DILUTE AS MUCH AS POSSIBLE, AVOID HEAT & CONTAMINATION WITH ACID MATERIALS. DO NOT USE COMBUSTIBLE MATERIAL SUCH AS SAWDUST TO ABSORB HYPOCHLORITE.

WASTE DISPOSAL METHOD - REDUCE WITH CHEMICALS LISTED BELOW, KEEP ALKALINE SIDE AND DILUTE WITH COPIOUS QUANTITIES OF WATER. MAIN END PRODUCT IS SALT WATER.

SECTION VII - HEALTH HAZARDS

THRESHOLD LIMIT VALUE: CAUSES IRRITATION OF MEMBRANES OF THE MOUTH, THROAT, & STOMACH PAIN AND POSSIBLE ULCERATION. LD50 (ORAL RAT) FOR 5.25% NaOCL IS APPROXIMATELY 13g/kg BODY WEIGHT AND FOR 12.5% NaOCL 5g/kg BODY WEIGHT.

EFFECTS OF OVEREXPOSURE: ACUTE: IRRITATION TO EYES AND THROAT

CHRONIC: CONSTANT IRRITATION TO THE EYES & THROAT

FIRST AID PROCEDURES:

SKIN: REMOVE SOAKED CLOTHES. WASH WITH WATER FOR AT LEAST 5 MINUTES.

EYES: COPIOUS EYE WASH WITH WATER AT LEAST 15 MINUTES. CONSULT EYE SPECIALIST IMMED.

INHALATION: REMOVE TO FRESH AIR

INGESTION: DRINK WATER, MILK, & OBTAIN MEDICAL ATTN. DO NOT USE BAKING SODA OR ACIDIC ANTIDOTES.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: WHEN FUMES ARE PRESENT USE NIOSH APPROVED RESPIRATOR WITH ACID TYPE CANISTER.

VENTILATION: NO SPECIAL

SPECIAL: VENTILATION REQUIRED UNLESS BLEACH IS EXPOSED TO DECOMPOSITION CONDITIONS.

OTHER: I.E. SPILLS OR ACID CONDITIONS.

PROTECTIVE GLOVES: USE RUBBER OR PLASTIC GLOVES WHEN EXPOSED TO SOLUTIONS STRONGER THAN HOUSEHOLD BLEACH. (7%)

EYE PROTECTION: USE GOGGLES OR WHEN DISPENSING SOLUTIONS STRONGER THAN HOUSEHOLD BLEACH. (7%)

OTHER PROTECTIVE EQUIPMENT: USE RUBBER APRON, ETC. TO PROTECT BODY FROM ANY SPLASHING CONDITIONS. USE RUBBER PROTECTIVE SHOES IF SPILL OCCURS. SAFETY SHOWERS & EYE WASH STATIONS SHOULD BE AVAILABLE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: NORMAL HANDLING OF HOUSEHOLD BOTTLED BLEACH REQUIRES SAFETY REQUIREMENTS AS STATED ON THE LABELS. FULL PROTECTION SHOULD BE PROVIDED WHEN HANDLING BULK SHIPMENTS OF CONCENTRATED INDUSTRIAL BLEACH SOLUTIONS.

OTHER PRECAUTIONS: STORE IN VENTED, CLOSED, CLEAN, NON-CORROSIVE CONTAINERS IN A COOL DRY LOCATION AWAY FROM DIRECT SUNLIGHT AND NOT ADJACENT TO CHEMICALS WHICH MAY REACT WITH THE BLEACH IF SPILLAGE OCCURS. IF SHIPPED YOU MUST COMPLY WITH DOT ETC. SHIPPING REGULATIONS. IF CLOSED CONTAINERS BECOME HEATED, THEY SHOULD BE VENTILATED TO RELEASE DECOMPOSITION PRODUCTS (MAINLY OXYGEN UNDER NORMAL DECOMPOSITION) DO NOT MIX OR CONTAMINATE WITH AMMONIA, HYDROCARBONS ACID ALCOHOLS AND ETHERS.

SECTION X - DILUTION RATIO

FULL, S.H. 12-8, C.S. 2.0480%
