MATERIAL SAFETY DATA SHEET PAGE 1 OF 4

MANUFACTURED FOR: PRODUCT: NATIONAL SANITARY 5.25% BLEACH NATIONAL SANITARY SUPPLY COMPANY NATIONAL ITEM #: 2610XX 255 EAST FIFTH STREET, SUITE 2900 DATE ISSUED: 04/09/97 CINCINNATI, OH 45202 SUPERCEDES:

24 HR. EMERGENCY NO. (800) 535-5053

I. PRODUCT IDENTIFICATION

.....

TRADE NAME (AS LABELED): NATIONAL SANITARY 5.25% BLEACH

DATE PREPARED OR REVISED: 04/09/97

II. HAZARDOUS INGREDIENTS

CHEMICAL NAMES CAS NUMBER PERCENT* EXPOSURE LIMITS IN AIR ACGIH TLV OSHA PEL OTHER

SODIUM HYPOCHLORITE 7681-52-9 1 PPM 1 PPM N/A (CHLORINE GAS)

* NOT A REQUIRED CATEGORY

III. PHYSICAL PROPERTIES

VAPOR DENSITY (AIR=1): N/A MELTING POINT OR RANGE, F: N/A SPECIFIC GRAVITY: 1.082 @ 20 C BOILING POINT OR RANGE, F: 217 F SOLUBILITY IN WATER: 100%

EVAPORATION RATE (BUTYL AŒTATE=1): N/A

VAPOR PRESSURE, MM HG @ 20 C: 16

APPEARANCE AND ODOR: PALE YELLOW LIQUID WITH TYPICAL BLEACH ODOR.

IV. FIRE AND EXPLOSION

FLASH POINT, F (GIVE METHOD): N/A

FLAMMABLE LIMITS IN AIR, VOLUME %: NON-FLAMMABLE

LOWER: UPPER:

FIRE EXTINGUISHING MATERIALS: USE WATER IN FLOODING QUANTITIES AS FOG. WATER SPRAY: X CARBON DIOXIDE: FOAM: DRY CHEMICAL: OTHER:

SPECIAL FIREFIGHTING PROCEDURES: WEAR NIOSHAPPROVED SELF CONTAINED BREATHING APPARATUS FOR CHLORINE GAS VAPORS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS: BLEACH DECOMPOSES WHEN HEATED TO HIGH TEMPERATURES.

NFPA HAZARD CLASSIFICATION:

HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 1 SPECIAL: COR

MATERIAL SAFETY DATA SHEET PAGE 2 OF 4

PRODUCT NAME: NATIONAL SANITARY 5.25% BLEACH DATE ISSUED: 04/09/97 NATIONAL ITEM#: 2610XX SUPERCEDES:

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE:

INHALED: INHALATION OF VAPORS MAY CAUSE BRONCHIAL IRRITATION, COUGHING, DIFFICULTY BREATHING, PULMONARY IRRITATION.

CONTACT WITH SKIN OR EYES: ACCIDENTAL EYE CONTACT WITH LIQUID OR VAPORS MAY PRODUCE MODERATE TO SEVERE IRRITATION.

ABSORBED THROUGH SKIN: MAY RESULT IN BLISTERING AND ECZEMA.

SWALLOWED: MAY CAUSE BURNING SENSATION AND CORROSION OF MUCOUS MEMBRANES, ESOPHAGEAL OR GASTRIC PERFORATION, LARYNGEAL EDEMA, VOMITING AND NAUSEA.

HEALTH EFFECTS OR RISKS FROM EXPOSURE:

ACUTE: DEPENDING ON SOLUTION CONCENTRATION, MATERIAL MAY BE CORROSIVE TO SKIN. MUCOUS MEMBRANES AND EYES AND VAPORS MAY CAUSE RESPIRATORY IRRITATION.

CHRONIC: MAY CAUSE DAMAGE OR INJURY TO EYES, SKIN AND RESPIRATORY ORGANS.

FIRST AID AND EMERGENCY PROCEDURES:

EYE CONTACT: FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, GET PROMPT MEDICAL ATTENTION.

SKIN CONTACT: RINSE THOROUGHLY WITH RUNNING WATER. IF IRRITATION PERSISTS, CONTACT PHYSICIAN OR LOCAL POISON CONTROL CENTER.

INHALED: IF EFFECTS OCCUR, REMOVE VICTIM TO FRESH AIR. PROVIDE SYMPTOMATIC CARE AND SUPPORT RESPIRATION. GET PROMPT MEDICAL ATTENTION.

SWALLOWED: IMMEDIATELY GIVE LARGE QUANTITIES OF WATER OR MILK TO DILUTE. DO NOT INDUCE VOMITING. GET PROMPT MEDICAL ATTENTION.

SUSPECT CANCER AGENT:

NO: X THIS PRODUCT'S INGREDIENTS ARE NOT FOUND IN THE LISTS BELOW.

YES: FEDERAL OSHA: NTP: IARC:

VI. REACTIVITY DATA

STABILITY STABLE: UNSTABLE: X

CONDITIONS TO AVOID: HEAT

MATERIAL SAFETY DATA SHEET PAGE 3 OF 4

PRODUCT NAME: NATIONAL SANITARY 5.25% BLEACH DATE ISSUED: 04/09/97 NATIONAL ITEM #: 2610XX SUPERCEDES:

INCOMPATIBILITY (MATERIALS TO AVOID): ACIDS, AMMONIA, ORGANIC COMPOUNDS, HEAVY METALS AND SALTS THEREOF, AND OXIDIZING OR REDUCING COMPOUNDS.

HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS): CHLORINE, CHLORINE DIOXIDE, CHLORAMINES. DECOMPOSITION PRODUCTS MAY CAUSE CONTAINERS TO RUPTURE.

HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

·-----

SPILL RESPONSE PROCEDURES (INCLUDING EMPLOYEE PROTECTION MEASURES): DILUTE WITH COPIOUS AMOUNTS OF WATER AND THEN MOP UP. AVOID SPLASHING INTO EYES. AVOID REPEATED OR PROLONGED SKIN CONTACT. AVOID INHALATION OF FUMES, STAY UP WIND OF SPILL.

PREPARING WASTES FOR DISPOSAL (CONTAINER TYPES, NEUTRALIZATION, ETC.): NEUTRALIZE AND DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

NOTE: DISPOSE OF ALL WASTES IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

VIII. SPECIAL HANDLING PROCEDURES

VENTILATION AND ENGINEERING CONTROLS: PROVIDE ADEQUATE VENTILATION.

RESPIRATORY PROTECTION (TYPE): WEAR NIOSHAPPROVED RESPIRATORY PROTECTION.

EYE PROTECTION (TYPE): WEAR SPLASH-PROOF CHEMICAL RESISTANT SAFETY GOGGLES.

GLOVES (SPECIFY MATERIAL): WEAR PROTECTIVE CLOTHING INCLUDING RUBBER GLOVES, RUBBER BOOTS, AND FACE SHIELD.

OTHER CLOTHING AND EQUIPMENT: SEE ABOVE.

WORK PRACTICES, HYGIENIC PRACTICES: PROVIDE EYE BATH AND EMERGENCY SHOWERS. LAUNDER WORK CLOTHES WHEN SOILED.

OTHER HANDLING AND STORAGE REQUIREMENTS: STORE IN COOL, DARK PLACE AWAY FROM HEAT AND LIGHT AND COMBUSTIBLE MATERIALS. STORE BELOW 90 F. KEEP CONTAINERS WELL CLOSED. PROVIDE ADEQUATE VENTILATION.

MATERIAL SAFETY DATA SHEET PAGE 4 OF 4

PRODUCT NAME: NATIONAL SANITARY 5.25% BLEACH DATE ISSUED: 04/09/97 NATIONAL ITEM #: 2610XX SUPERCEDES:

THE INFORMATION CONTAINED HEREIN IS PROVIDED IN GOOD FAITH AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, T-CHEM PRODUCTS, INC. MAKES NO REPRESENTATION AS TO THE COMPREHENSIVENESS OR ACCURACY OF THE INFORMATION. IT IS EXPECTED THAT THE INDIVIDUALS RECEIVING THE INFORMATION WILL EXERCISE THEIR JUDGMENT IN DETERMINING ITS APPROPRIATENESS FOR A PARTICULAR PURPOSE. ACCORDINGLY, T-CHEM PRODUCTS, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES OF ANY KIND RESULTING FROM THE USE OF OR RELIANCE UPON SUCH INFORMATION. NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED OF MERCHANTABILITY. FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR TO THE PRODUCT TO WHICH THE INFORMATION REFERS.

FOR GENERAL INFORMATION OR MATERIAL SAFETY DATA SHEET REQUESTS PLEASE CALL OUR OFFICES AT:

1 (310) 906-2223 MONDAY THROUGH FRIDAY 9 AM TO 5 PM

ALL T-CHEM PRODUCTS ARE LISTED WITH HAZARD INFORMATION SERVICES. FOR EMERGENCY RESPONSE AND HAZARD COMMUNICATION ONLY CALL:

1 (800) 228-5635 EXTENSION 179