

MANUFACTURER/DISTRIBUTOR NAME: H & S MANUFACTURING, INC.

ADDRESS: 727 EAST BROADWAY
WILLISTON, ND 58801

EMERGENCY TELEPHONE NUMBER: CONTACT YOUR LOCAL POISON
INFORMATION CENTER

EFFECTIVE DATE: 02/05/88

PRODUCT NAME: CHLORINE CONCENTRATE

IDENTIFICATION

HAZARDOUS COMPOSITION (>1%): SODIUM HYPOCHLORITE (<6%)

CHEMICAL FORMULA: N.A.

MOLECULAR WEIGHT: N.A.

CTFA ADOPTED NAME: N.A.

CAS NUMBER: 7681-52-9

SYNONYMS: N.A.

PHYSICAL DATA

BOILING POINT (DEGREES F.): 217 MELTING POINT: N.A.

VAPOR DENSITY (AIR=1): 19.2 FREEZING POINT: N.A.

SPECIFIC GRAVITY(WATER=1): 1.087 SATURATION IN AIR: N.A.

VAPOR PRESSURE (MM HG.): 16 PH: 12.4

EVAPORATION RATE (*=1): N.A. AUTO IGNITION TEMP: N.A.

VOLATILES BY WEIGHT (%): 88

SOLUBILITY IN WATER: COMPLETE

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

FLASH POINT (F)/METHOD USED: N.A.

FLAMMABLE LIMITS (LEL/UEL): N.A.

REACTIVITY

STABILITY: UNSTABLE

CONDITIONS TO AVOID: SEE INCOMPATIBILITY BELOW

POLYMERIZATION (HAZARDOUS): WILL NOT OCCUR

INCOMPATIBLE MATERIALS: ACIDS, AMMONIA, ORGANIC COMPOUNDS, HEAVY
METALS & SALTS THEREOF, & OXIDIZING OR
REDUCING COMPOUNDS

HAZARDOUS DECOMPOSITION PRODUCTS: CHLORINE, CHLORINE DIOXIDE,
CHLORAMINES

ENVIRONMENTAL IMPACT

APPLICABLE REGULATIONS: NONE
DOT/EPA HAZARD CLASS: N.A.
SHIPPING NAME: SEE PRODUCT NAME

HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMITS (PEL): N.A.

THRESHOLD LIMIT VALUES (TLV): N.A.

WARNING SIGNALS: RESPIRATORY, OCULAR IRRITATION

EFFECTS OF OVER EXPOSURE: INHALATION: RESPIRATORY TRACT IRRITATION,
PULMONARY EDEMA

INGESTION: MAY CAUSE BURNING SENSATION &
IRRITATION OF MUCOUS MEMBRANES
WITH PROMPT EMESIS

SKIN: VESICULAR ERUPTIONS AND ECZEMATOID
DERMATITIS

EYES: IRRITATION-MILD TO MODERATE FROM
VAPORS

EXPOSURE CONTROL METHODS

ENGINEERING: NONE

EYE PROTECTION: NONE

SKIN PROTECTION: NONE

RESPIRATORY PROTECTION: NONE

WORK PRACTICES

HANDLING: USE NORMAL PRECAUTIONS FOR HANDLING CAUSTIC SUBSTANCES.

STORAGE: SHOULD BE STORED BELOW 90 DEGREES F. SHOULD NOT BE
EXPOSED TO DIRECT SUNLIGHT FOR EXTENDED PERIODS OF TIME.

NORMAL CLEAN UP: DILUTE WITH COPIOUS AMOUNTS OF WATER & THEN MOP UP.

WASTE DISPOSAL: FLUSH WITH WATER TO SEWER IN ACCORDANCE WITH
FEDERAL, STATE & LOCAL ORDINANCES.

EMERGENCY PROCEDURES

FIRE & EXPLOSION HAZARD: BLEACH DECOMPOSES WHEN HEATED TO HIGH
TEMPERATURES: USE RESPIRATORY PROTECTION.
DECOMPOSITION PRODUCTS MAY CAUSE CONTAINERS
TO RUPTURE.

EXTINGUISHING METHODS: N.A.

RELEASE TO ENVIRONMENT/SPILL PROCEDURES: AVOID FUMES FROM SPILLED
LIQUIDS, DILUTE COPIOUSLY.

FIRST AID & MEDICAL EMERGENCY PROCEDURES

EYES: RINSE THOROUGHLY WITH WATER, SEEK MEDICAL ASSISTANCE.

SKIN: RINSE THOROUGHLY WITH WATER.

INHALATION: REMOVE TO FRESH AIR; SUPPORT RESPIRATION.

INGESTION: SWALLOW IMMEDIATELY MILK, EGG WHITE, MILK OF MAGNESIA,
OR STARCH PASTE.
