

MATERIAL SAFETY DATA SHEET ****

HIGH SIERRA CHEMICALS
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Latest Revision Date...03/01/11
 Print Date.....03/16/11
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CHLOR-O-CLEAN

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SECTION 1 PRODUCT IDENTIFICATION

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PRODUCT NAME OR NUMBER..... CHLOR-O-CLEAN
 TRADE NAME OR CHEMICAL NAME..... CHLOR-O-CLEAN
 SYNONYMS..... NONE
 FORMULA..... PROPRIETARY
 CHEMICAL FAMILY..... CHLORINATED ALKALI DETERGENT
 MOLECULAR WEIGHT..... N/A
 NFPA..... SEE SECTION 8
 HMIS RATING..... SEE SECTION 8

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SECTION 2 HAZARDOUS INGREDIENTS / HAZARD DATA

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<u>CHEMICAL NAME(S)</u>	<u>CAS NUMBER</u>	<u>% WT</u>	<u>TLV-ACGIH</u>	<u>PEL-OSHA</u>	<u>SEC.313</u>	<u>NTP</u>	<u>IARC</u>	<u>PROP.65</u>
SODIUM HYPOCHLORITE	7681-52-9	<5.0	0.5 ppm as Cl 2	0.5 ppm as Cl 2	No	NO	NO	No
POTASSIUM HYDROXIDE	1310-58-3	<10.0	2MG/M3	NONE	No	NO	NO	No

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SECTION 3 REGULATORY DATA

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NTP..... NATIONAL TOXICOLOGY PROGRAM
 IARC..... INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
 PROPOSITION 65..... THIS PRODUCT CONTAINS INGREDIENTS ON
 THE LIST OF PROPOSITION 65.
 STATE OF CALIFORNIA SAFE DRINKING WATER AND
 TOXIC ENFORCEMENT ACT OF 1986.
 SECTION 313 SARA TITLE III... THE CHEMICAL(S) MARKED WITH A "YES" ON
 SECTION 313 ARE SUBJECT TO THE REPORTING
 REQUIREMENTS OF THIS SECTION.

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SECTION 4 PHYSICAL DATA

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BOILING/MELTING POINT @760 mm Hg ≥212°F
 pH..... 13.5
 SPECIFIC GRAVITY OR BULK DENSITY 1.151
 SOLUBILITY IN WATER..... SOLUBLE
 APPEARANCE..... LIGHT YELLOW
 ODOR..... SLIGHT CHLORINE

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SECTION 5 FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT °F (Test Method).... N/A
 AUTOIGNITION TEMPERATURE..... NON FLAMMABLE
 FLAMMABILITY LIMITS IN AIR (% V) N/A
 EXTINGUISHING MEDIA..... FOAM, CARBON DIOXIDE, DRY CHEMICAL
 SPECIAL FIRE FIGHTING PROCEDURES WEAR SELF CONTAINED BREATHING APPARATUS
 AND FULL PROTECTIVE CLOTHING. USE WATER
 TO COOL CONTAINERS BUT AVOID GETTING WATER
 INTO CONTAINER.

CHLOR-O-CLEAN

SECTION 5

FIRE AND EXPLOSION HAZARD DATA

CONT'D

UNUSUAL FIRE & EXPLOSION HAZARDS AVOID DIRECT CONTACT WITH WATER. CAN CAUSE VIOLENT EXOTHERMIC REACTION. CHLORINE GAS CAN BE FORMED IN CASE OF FIRE.

SECTION 6

HEALTH HAZARD DATA * EFFECTS OF OVEREXPOSURE

THRESHOLD LIMIT VALUE.....SEE SECTION 2

SIGN OF OVEREXPOSURE:

EYES.....WILL CAUSE SEVERE BURNS THAT RESULT IN DAMAGE TO THE EYES AND POSSIBLE BLINDNESS.

SKIN.....WILL CAUSE SEVERE BURNS AND IRRITATION WHICH MAY NOT BE IMMEDIATELY PAINFUL OR VISIBLE.

INHALATION.....AIRBORNE CONCENTRATIONS OF DUST MIST, OR SPRAY MAY CAUSE DAMAGE TO THE UPPER RESPIRATORY TRACT AND THE LUNG TISSUE.

INGESTION.....IF SWALLOWED, CAN CAUSE SEVERE BURNS OF MUCOUS MEMBRANES OF THE MOUTH, THROAT AND STOMACH.

CHRONIC.....NO KNOWN CHRONIC EFFECTS

SECTION 7

EMERGENCY AND FIRST AID PROCEDURES

INHALATION...REMOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, ASSIST BREATHING. SEEK MEDICAL HELP.

EYE CONTACT...IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSH WITH WATER FOR AT LEAST 15 MINUTES. CONTACT A PHYSICIAN.

SKIN CONTACT...IMMEDIATELY WASH SKIN WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. GET MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.

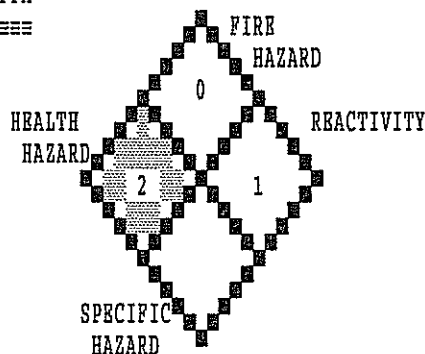
INGESTION....NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 8

HMIS RATING SYSTEM

NFPA

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HMIS RATING

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HEALTH HAZARD.....:2

FIRE HAZARD.....:0

REACTIVITY.....:1

PERSONAL PROTECTION..: SEE SECTION 10

SECTION 9

REACTIVITY DATA

PRODUCT STABILITY..... STABLE

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SECTION 9

REACTIVITY DATA

CONT'D

Conditions to Avoid.....
CHEMICAL INCOMPATIBILITY..... AVOID CONTACT WITH WATER, ACIDS, OXIDIZING AGENTS, ORGANIC CHEMICALS, METALS SUCH AS ALUMINUM, ZINC & COPPER. CONTACT WILL CAUSE VIOLENT EXOTHERMIC REACTION.
HAZARDOUS DECOMPOSITION PRODUCTS CARBON MONOXIDE GAS CAN FORM UPON CONTACT WITH FOOD & BEVERAGE PRODUCT IN ENCLOSED SPACES. CHLORINE GAS CAN BE PRODUCED.
HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR
Conditions to Avoid..... KEEP CONTAINER CLOSED.
CORROSIVE TO METAL..... YES
OXIDIZER..... NO

SECTION 10

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION.....Respirator protection is not required under normal use.
VENTILATION.....Local exhaust to control to recommended P.E.L.
PROTECTIVE CLOTHING.....Gloves, coveralls, aprons, boots
EYE PROTECTION.....Chemical goggles.

SECTION 11

ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA..... NONE KNOWN
SPILL OR LEAK PROCEDURES..... CONTAIN, COLLECT AND DISPOSE PER LOCAL, STATE AND FEDERAL REGULATIONS.
WASTE DISPOSAL METHOD..... PER LOCAL, STATE AND FEDERAL REGULATIONS.
CONTAINER DISPOSAL..... PER LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 12

SHIPPING DATA

D.O.T. PROPER SHIPPING NAME..... CORROSIVE LIQUID, BASIC, INORGANIC, NOS (POTASSIUM HYDROXIDE, SODIUM HYPOCHLORITE)
HAZARDOUS SUBSTANCE..... RQ - 1000 LBS.
D.O.T. HAZARD CLASS..... 8
D.O.T. LABELS REQUIRED..... CORROSIVE
D.O.T. PLACARDS REQUIRED..... CORROSIVE
POISON CONSTITUENT..... NONE
BILL OF LADING DESCRIPTION..... CHLOR-O-CLEAN
PACKING GROUP..... II
UN/NA CODE..... UN 3266

SECTION 13

SUPPLIER INFORMATION

While High Sierra Chemical believes the statements set forth herein are accurate as of the date hereof, High Sierra Chemical makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.