# Chem-Impex International Inc.

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# SAFETY DATA SHEET

#### SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 40867

NAME: Sodium hypochlorite pentahydrate

24 HOUR EMERGENCY

TELEPHONE:

(800) 535-5053(USA)

352-323-3500 (INTERNATIONAL)

TO REQUEST AN MSDS: (800) 869-9290

CUSTOMER SERVICE:

(630) 766-2112

# SECTION 2. HAZARDS IDENTIFICATION

# CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS) OXIDIZING SOLIDS (CATEGORY 2), H272

SKIN CORROSION (CATEGORY 1B), H314

CORROSIVE TO METALS (CATEGORY 1), H290

SERIOUS EYE DAMAGE/IRRITATION (CATEGORY 1), H318

SHORT-TERM (ACUTE) AQUATIC HAZARD (CATEGORY 1), H400

LONG-TERM (CHRONIC) AQUATIC HAZARD (CATEGORY 1), H410

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

#### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

**PICTOGRAM** 



SIGNAL WORD DANGER

#### HAZARD STATEMENT(S)

H272 MAY INTENSIFY FIRE; OXIDISER. H290 MAY BE CORROSIVE TO METALS.

H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

H400 VERY TOXIC TO AQUATIC LIFE

H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING

EFFECTS.

#### PRECAUTIONARY STATEMENT(S)

P210 KEEP AWAY FROM HEAT.

P220 KEEP/STORE AWAY FROM CLOTHING/ COMBUSTIBLE

MATERIALS.

P221 TAKE ANY PRECAUTION TO AVOID MIXING WITH

COMBUSTIBLES.

P234 KEEP ONLY IN ORIGINAL CONTAINER.

P260 DO NOT BREATHE DUST OR MIST.

P264 WASH SKIN THOROUGHLY AFTER HANDLING.

P273 AVOID RELEASE TO THE ENVIRONMENT.

P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE

PROTECTION/ FACE PROTECTION.

P301 + P330 + P331 IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.

P303 + P361 + P353 IF ON SKIN (OR HAIR): REMOVE/ TAKE OFF IMMEDIATELY

ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/

SHOWER.

P304 + P340 + P310 IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP

COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A

POISON CENTER/DOCTOR.

P305 + P351 + P338 + IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL

P310 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND

EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A

POISON CENTER/DOCTOR.

P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.

P370 + P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR

ALCOHOL-RESISTANT FOAM TO EXTINGUISH.

P390 ABSORB SPILLAGE TO PREVENT MATERIAL DAMAGE.

P391 COLLECT SPILLAGE. P405 STORE LOCKED UP.

P406 STORE IN CORROSIVE RESISTANT CONTAINER WITH A

RESISTANT INNER LINER.

P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED

WASTE DISPOSAL PLANT.

HAZARDS NOT
OTHERWISE
CLASSIFIED
(HNOC) OR NOT
COVERED BY GHS

NONE

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF: NaClO•5H<sub>2</sub>O

MW: 164.52

CAS-NO. 10022-70-5

PURITY:  $\geq 42\%$  (Available chlorine)

#### HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION
Sodium hypochlorite pentahydrate		
	-	-

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

# **SECTION 4. FIRST-AID MEASURES**

# DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE FIRST AIDER NEEDS TO PROTECT HIMSELF. SHOW THIS

MATERIAL SAFETY DATA SHEET TO THE DOCTOR IN

ATTENDANCE.

IF INHALED REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A

POSITION COMFORTABLE FOR BREATHING. IMMEDIATELY CALL APOISON CENTER OR

DOCTOR/PHYSICIAN.

IN CASE OF SKIN

**CONTACT** 

REMOVE/TAKE OFF IMMEDIATELY ALL

CONTAMINATED CLOTHING. GENTLY WASH WITH PLENTY OF SOAP AND WATER. IMMEDIATELY CALL A

POISON CENTER OR DOCTOR/PHYSICIAN.

IN CASE OF EYE

**CONTACT** 

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL

MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.IMMEDIATELY CALL

A POISON CENTER OR DOCTOR/PHYSICIAN.

**IF SWALLOWED** IMMEDIATELY CALL A POISON CENTER OR

DOCTOR/PHYSICIAN. RINSE MOUTH. DO NOT INDUCE VOMITING.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED NO DATA AVAILABLE

#### SECTION 5. FIRE AND EXPLOSION DATA

#### **EXTINGUISHING MEDIA**

**SUITABLE** DRY CHEMICAL, FOAM, WATER SPRAY, CARBON DIOXIDE.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE EXPLOSION RISK IN CASE OF FIRE. FIGHT FIRE REMOTELY DUE TO THE RISK OF EXPLOSION. TAKE CARE AS IT MAYDECOMPOSE UPON COMBUSTION OR IN HIGH TEMPERATURES TO GENERATE POISONOUS

FUME.

HAZARDOUS COMBUSTION PRODUCTS: THESE PRODUCTS INCLUDE: CARBON OXIDES HALOGENATED COMPOUNDS METALLIC OXIDES

OTHER SPECIFIC HAZARDS:

WARNING: HIGHLY TOXIC HCL GAS IS PRODUCED DURING COMBUSTION.

ADVICE FOR FIREFIGHTERS

WEAR SELF-CONTAINED BREATHING APPARATUS IF POSSIBLE. COMBAT FIRE FROM A SHELTERED

POSITION.

FURTHER INFORMATION

SUPPRESS (KNOCK DOWN) GASES/VAPORS/MISTS WITH A WATER SPRAY JET. PREVENT FIRE EXTINGUISHING WATER FROM CONTAMINATING SURFACE WATER OR

THE GROUND WATER SYSTEM.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE USE PERSONAL PROTECTIVE EQUIPMENT. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. ENTRY TO NON-INVOLVED PERSONNEL SHOULD BE CONTROLLED

EQUIPMENT AND EMERGENCY PROCEDURES

AROUND THE LEAKAGE AREA BY ROPING OFF, ETC.

ENVIRONMENTAL PRECAUTIONS

BE CAREFUL NOT TO LET IT FLOW INTO RIVERS, ETC., SINCE ADVERSE EFFECTS ON THE ENVIRONMENT ARE

CONCERNED.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP SWEEP DUST TO COLLECT IT INTO AN AIRTIGHT CONTAINER, TAKING CARE NOT TO DISPERSE IT. ADHERED OR COLLECTEDMATERIAL SHOULD BE PROMPTLY DISPOSED OF, IN ACCORDANCE WITH

APPROPRIATE LAWS AND REGULATIONS.

PREVENTION OF SECONDARY HAZARDS

REMOVE ALL SOURCES OF IGNITION. FIRE-EXTINGUISHING DEVICES SHOULD BE PREPARED IN CASE OF A FIRE. USESPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT. ENSURE ALL LEAKS ARE COMPLETELY REMOVED TO PREVENT

SUBSEQUENT IGNITION.

#### SECTION 7. HANDLING AND STORAGE

# PRECAUTIONS FOR SAFE HANDLING

HANDLING IS PERFORMED IN A WELL VENTILATED PLACE. WEAR SUITABLE PROTECTIVE EQUIPMENT. PREVENT DISPERSION OF DUST. KEEP AWAY FROM HEAT. WASH HANDS AND FACE THOROUGHLY AFTER HANDLING. USE A CLOSED SYSTEM IF POSSIBLE. USE A LOCAL EXHAUST IF DUST OR AEROSOL WILL BE GENERATED. AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

MAY DEVELOP PRESSURE. OPEN CAREFULLY. DON'T LEAVE USED EQUIPMENT OR RAG. THIS PRODUCT MAY IGNITE IF ITIS LEFT STUCK ON COMBUSTIBLES SUCH AS PAPER, RAGS, AND ETC. USE CORROSIVE RESISTANT EQUIPMENT.

CONDITIONS FOR SAFE STORAGE, INCLUDING

KEEP CONTAINER TIGHTLY CLOSED. STORE IN A FREEZER.

ANY INCOMPATIBILITIES

STORE UNDER INERT GAS. PROTECT FROM MOISTURE. STORE LOCKED UP. BE SURE NOT TO GIVE THE

CONTAINER UNEXPECTED IMPACTS, SUCH AS FALLING

DOWN OR FALLING OFF.

STORE AWAY FROM COMBUSTIBLES.

HEAT-SENSITIVE LIGHT-SENSITIVE HYGROSCOPIC

Store at < -4 °C

**SPECIFIC END USE(S)** 

APART FROM THE USES MENTIONED IN SECTION 1.2 NO

OTHER SPECIFIC USES ARE STIPULATED

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **CONTROL PARAMETERS**

#### **EXPOSURE CONTROLS**

APPROPRIATE ENGINEERING CONTROLS FOLLOW SAFE INDUSTRIAL ENGINEERING/LABORATORY PRACTICES WHEN HANDLING ANY CHEMICAL. INSTALL A CLOSEDSYSTEM OR LOCAL EXHAUST. ALSO INSTALL SAFETY SHOWER AND EYE BATH.

# PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION

USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU). TIGHTLY FITTING SAFETY GOGGLES

SKIN PROTECTION

HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE'S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY

**BODY PROTECTION** 

PROTECTIVE CLOTHING

HANDS.

RESPIRATORY PROTECTION

DUST RESPIRATOR, SELF-CONTAINED BREATHING APPARATUS(SCBA), SUPPLIED AIR RESPIRATOR, ETC. USE

RESPIRATORSAPPROVED UNDER APPROPRIATE

GOVERNMENT STANDARDS AND FOLLOW LOCAL AND

NATIONAL REGULATIONS.

CONTROL OF ENVIRONMENTAL EXPOSURE DO NOT LET PRODUCT ENTER DRAINS.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE LIGHT YELLOW TO YELLOW TO ORANGE POWDER TO

**CRYSTAL** 

ODOUR ODOURLESS

ODOUR THRESHOLD NO DATA AVAILABLE NO DATA AVAILABLE

MELTING NO DATA AVAILABLE

POINT/FREEZING POINT

INITIAL BOILING POINT NO DATA AVAILABLE

AND BOILING RANGE

FLASH POINT

EVAPORATION RATE

FLAMMABILITY (SOLID,

NO DATA AVAILABLE

NO DATA AVAILABLE

NO DATA AVAILABLE

GAS)

UPPER/LOWER NO DATA AVAILABLE

FLAMMABILITY OR EXPLOSIVE LIMITS

VAPOUR PRESSURE
VAPOUR DENSITY
RELATIVE DENSITY
WATER SOLUBILITY

NO DATA AVAILABLE
NO DATA AVAILABLE
VERY SOLUBLE

PARTITION NO DATA AVAILABLE

COEFFICIENT: N-OCTANOL/WATER

AUTO-IGNITION NO DATA AVAILABLE

TEMPERATURE

DECOMPOSITION NO DATA AVAILABLE

TEMPERATURE

VISCOSITY NO DATA AVAILABLE EXPLOSIVE NO DATA AVAILABLE PROPERTIES

PROPERTIES

OXIDIZING PROPERTIES NO DATA AVAILABLE

OTHER SAFETY INFORMATION

NO DATA AVAILABLE

#### SECTION 10. STABILITY AND REACTIVITY

**REACTIVITY** NO DATA AVAILABLE

CHEMICAL STABILITY THE PRODUCT IS CHEMICALLY STABLE UNDER

STANDARD AMBIENT CONDITIONS (ROOM

TEMPERATURE).

POSSIBILITY OF HAZARDOUS REACTIONS MAY CAUSE FIRE OR EXPLOSION ON CONTACT WITH REDUCING AGENTS OR MIXING WITH COMBUSTIBLES.

CONDITIONS TO AVOID HEAT, SHOCK, FRICTION, LIGHT

11,012

**INCOMPATIBLE** OXIDIZING AGENTS, ACIDS, REDUCING AGENTS,

MATERIALS COMBUSTIBLES, HEAVY METALS

HAZARDOUS DECOMPOSITION PRODUCTS HYDROGEN CHLORIDE

#### **SECTION 11.** TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY NO DATA AVAILABLE

SKIN NO DATA AVAILABLE

CORROSION/IRRITATION

SERIOUS EYE NO DATA AVAILABLE DAMAGE/EYE

RESPIRATORY OR SKIN

SENSITISATION

NO DATA AVAILABLE

**GERM CELL** MUTAGENICITY

**IRRITATION** 

NO DATA AVAILABLE

CARCINOGENICITY

IARC: NO COMPONENT OF THIS PRODUCT PRESENT AT

LEVELS GREATER THAN OR EQUAL TO 0.1% IS

IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED

HUMAN CARCINOGEN BY IARC.

NO COMPONENT OF THIS PRODUCT PRESENT AT NTP:

> LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED

CARCINOGEN BY NTP.

NO COMPONENT OF THIS PRODUCT PRESENT AT OSHA:

LEVELS GREATER THAN OR EQUAL TO 0.1% IS ON

OSHA'S LIST OF REGULATED CARCINOGENS.

REPRODUCTIVE

TOXICITY

NO DATA AVAILABLE

SPECIFIC TARGET ORGAN TOXICITY -SINGLE EXPOSURE

NO DATA AVAILABLE

SPECIFIC TARGET **ORGAN TOXICITY -**REPEATED EXPOSURE

NO DATA AVAILABLE

ASPIRATION HAZARD NO DATA AVAILABLE

ADDITIONAL INFORMATION RTECS: NOT AVAILABLE

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE

NOT BEEN THOROUGHLY INVESTIGATED.

#### SECTION 12. ECOLOGICAL INFORMATION

TOXICITY NO DATA AVAILABLE

PERSISTENCE AND DEGRADABILITY

NO DATA AVAILABLE

BIOACCUMULATIVE

POTENTIAL

NO DATA AVAILABLE

MOBILITY IN SOIL NO DATA AVAILABLE

RESULTS OF PBT AND VPVB ASSESSMENT

**T AND** PBT/VPVB ASSESSMENT NOT AVAILABLE AS

CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT

CONDUCTED

OTHER ADVERSE

**EFFECTS** 

NO DATA AVAILABLE

#### SECTION 13. DISPOSAL CONSIDERATIONS

### WASTE TREATMENT METHODS

**PRODUCT** RECYCLE TO PROCESS IF POSSIBLE. IT IS THE

GENERATOR'S RESPONSIBILITY TO COMPLY WITH FEDERAL, STATE ANDLOCAL RULES AND REGULATIONS. CONSULT AN EXPERT OF DISPOSAL. IF IT MIXES WITH FLAMMABLE SOLVENTS, IT MAYCATCH FIRE. THIS SECTION IS INTENDED TO PROVIDE ASSISTANCE BUT

DOES NOT REPLACE THESE LAWS, NOR

DOESCOMPLIANCE IN ACCORDANCE WITH THIS SECTION ENSURE REGULATORY COMPLIANCE ACCORDING TO THE LAW. US EPAGUIDELINES FOR IDENTIFICATION AND LISTING OF HAZARDOUS WASTE ARE LISTED IN 40 CFR PARTS 261. THEPRODUCT SHOULD NOT BE ALLOWED TO ENTER THE ENVIRONMENT, DRAINS, WATER WAYS, OR

THE SOIL.

**DISPOSAL OF** DISPOSE OF AS UNUSED PRODUCT. DO NOT RE-USE

**CONTAINER:** EMPTY CONTAINERS.

OTHER OBSERVE ALL FEDERAL, STATE AND LOCAL

**CONSIDERATIONS:** REGULATIONS WHEN DISPOSING OF THE SUBSTANCE.

#### SECTION 14. TRANSPORT INFORMATION

DOT (US)

PROPER SHIPPING NAME: HYPOCHLORITES, INORGANIC, N.O.S (Sodium hypochlorite

pentahydrate)

UN NUMBER: 3212 CLASS: 5.1 PACKING GROUP: II

REPORTABLE QUANTITY

(RQ):

**IMDG** 

PROPER SHIPPING NAME: HYPOCHLORITES, INORGANIC, N.O.S (Sodium hypochlorite

pentahydrate)

UN NUMBER: 3212 CLASS: 5.1 PACKING GROUP: II EMS-NO: F-H, S-O

**IATA** 

PROPER SHIPPING NAME: HYPOCHLORITES, INORGANIC, N.O.S (Sodium hypochlorite

pentahydrate)

UN NUMBER: 3212 CLASS: 5.1 PACKING GROUP: II

# **SECTION 15. REGULATORY INFORMATION**

SARA 302 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS

WITH A SECTION 302 EHS TPQ.

**SARA 313 COMPONENTS** THE FOLLOWING COMPONENTS ARE SUBJECT TO

REPORTING LEVELS ESTABLISHED BY SARA TITLE III,

SECTION 313:

CAS-NO. REVISION DATE

SODIUM HYPOCHLORITE 10022-70-5 2/16/1993

**PENTAHYDRATE** 

SARA 311/312 HAZARDS REACTIVITY HAZARD, ACUTE HEALTH HAZARD

#### MASSACHUSETTS RIGHT TO KNOW COMPONENTS

NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

#### SECTION 16. OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

H272 MAY INTENSIFY FIRE; OXIDISER.

H290 MAY BE CORROSIVE TO METALS.

H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

H400 VERY TOXIC TO AQUATIC LIFE

H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING

EFFECTS.

MSDS LEGEND

MW: MOLECULAR WEIGHT MF: MOLECULAR FORMULA

VOC: VOLATILE ORGANIC COMPOUNDS

ACGIH: AMERICAN CONFERENCE OF GOVERNMENENTAL INDUSTRIAL

**HYGINISTS** 

CAS: CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PEL: PERMISSIBLE EXPOSURE LIMIT (OSHA) TLV: THRESHOLD LIMIT VALUE (ACGIH)

IMPORTANT:

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