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Product ID:SODIUM CHLORATE, REAGENT

MSDS Date:08/01/1998

FSC:6810

NIIN:00-262-8587 Status Code:A

MSDS Number: CLGVL === Responsible Party ===

Company Name: CITY CHEMICAL LLC Address: 139 ALLINGS CROSSING ROAD

City:WEST HAVEN

State:CT ZIP:06516 Country:US

Info Phone Num:800-248-2436/203-932-2489

Emer

gency Phone Num:203-932-2489/800-248-2436

Preparer's Name: NOT PROVIDED

CAGE:1GKT4

=== Contractor Identification ===

Company Name: CITY CHEMICAL LLC Address: 139 ALLINGS CROSSING ROAD

Box:City:WEST HAVEN

State:CT ZIP:06516 Country:US

Phone:800-248-2436/203-932-2489 Contract Num:SP0450-01-M-ZE18

CAGE:1GKT4

======= Composition/Information on Ingredients ========

Ingred Name:SODIUM CHLORATE

CAS:7775-09-9

RTECS #:FO0525000

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED

ACGIH TLV:NOT

LD50 LC50 Mixture:LD50 (ORAL, RAT) 1200 MG/KG

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE EFFECTS: HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN. INHALATION MAY R ESULT IN SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEM

ICAL PNEUMONITIS AND

PULMONARY EDEMA. SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNES S OF BREATH, HEADACHE, NAUSEA AND VOMITING. TO THE BEST OF OUR KNOWLEDE, THE CHEMICAL, PHYSICAL AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

Explanation of Carcinogenicity: NONE

Effects of Overexposure:MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN. INHAL

ATION MAY RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI. SYMPTO MS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

Medical Cond Aggravated by Exposure: NOT PROVIDED

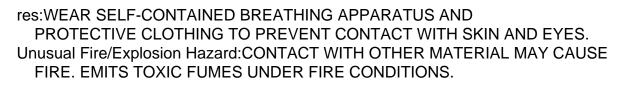
First Aid:IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SH

OES. ASSURE ADQUATE FLUSHING OF THE

EYES BY SEPARATI NG THE EYELIDS WITH FINGERS. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PER SON IS CONSCIOUS. CALL A PHYSICIAN. DISCARD CONTAMINATED CLOTHING AND SHOES.

============= Fire Fighting Measures ========================

Flash Point:NOT PROVIDED Extinguishing Media:WATER SPRAY Fire Fighting Procedu



======= Accidental Release Measures ==========

Spill Release Procedures:EVACUATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES. COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER AND HOLD FOR

WASTE DISPOSAL. VENTILAT E AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETED.

Neutralizing Agent: SODIUM BISULFITE

============= Handling and Storage ==========================

Handling and Storage Precautions:STORE IN A COOL DRY PLACE. KEEP TIGHTLY CLOSED. KEEP AWAY FROM COMBUSTIBLE MATERIALS, HEAT, SPARKS, AND OPEN FLAME.

Other Precautions:CORROSIVE. TOXIC. AVOID BREATHING DUST. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

====== Exposure Controls/Personal Protection ========

Respiratory Protection:WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR. Ventilation:USE ONLY IN A CHEMICAL FUME HOOD. AVOID BREATHING DUST.

Protective Gloves: WEAR APPROPRIATE CHEMICAL-RESISTANT GLOVES.

Eye Protection: WEAR APPROPRIATE SAFETY GOGGLES.

Other Protective Equipment: SAFETY SHOWER AND EYE BATH. WEAR APPROPRIATE PROTECTIVE CLOTHING.

Work Hygienic Practices: NOT PROVIDED

Supplemental Safety and Health

ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

======== Physical/Chemical Properties ===========

HCC:D1

NRC/State Lic Num:NOT RELEVANT
Melt/Freeze Pt:M.P/F.P Text:248C TO 261C
Decomp Temp:Decomp Text:NOT PROVIDED
Spec Gravity:2.490
pH:NOT PROVIDED
Solubility in Water:NOT PROVIDED
Appearance and Odor:WHITE CYRSTALS
Corrosion Rat

e:NOT PROVIDED
========= Stability and Reactivity Data =========
STRONG REDUCING AGENTS, ORGANIC MATERIALS, ALCOHOLS, METAL CYANIDES, CONCENTRATED SULFURIC ACID, SODIUM PHOSPHINATE, Stability Condition to Avoid:NOT PROVIDED Hazardous Decomposition Products:RELEASES OXYGEN, CHLORINE AND CHLORINE DIOXIDE WHEN HEATED ABOVE 300C.
========= Toxicological Information ==========
Toxicological Information:UNR-HMN LDL0: 214 MG/KG. UNR-CHD LD50: 185 MG
/KG. ORAL-RAT LD50: 1200 MG/KG. IHL-RAT LC50: > 28 GM/M3/1H. ORL-MUS LD50: 8350 MG/KG. IPR-MUS LD50: 596 MG/KG. ORAL-RBT LD50: 7200 MG/KG. SKIN-RBT LD50: > 10 G/KG. TARGET ORGANS: LUNGS, THORAX OR RESPIRATORY (CYANOSIS), BLOOD.
======== Ecological Information ==========
Ecological:DATA NOT YET AVAILABLE.
======= Disposal Considerations ==========
Waste Disposal Methods:OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGU LATIONS.
======== MSDS Transport Information =========
Transport Information:CONTACT CITY CHEMICAL LLC. FOR TRANSPORTATION INFORMATION.
========= Regulatory Information ===========
SARA Title III Information:NOT PROVIDED Federal Regulatory Information:TSCA LISTED. State Regulatory Information:NOT PROVIDED
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