

CITY CHEMICAL LLC -- SODIUM CHLORATE, REAGENT -- 6810-00-262-8587

=====  
Product Identification  
=====

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

Emerg

ency 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

PROVIDED

=====  
===== Hazards Identification =====

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 RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEMI

CAL 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. INHALA

TION 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 Measures =====

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 SHO

ES. 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 Procedur

es:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.  
Unusual Fire/Explosion Hazard:CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

===== 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. VENTILATE 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 Rate

: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 REGUL  
ATIONS.

===== 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

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies

):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.