Harcros Chemicals Inc  
Kansas City, Kansas  

MATERIAL SAFETY DATA SHEET  Page 1  

PRODUCT NAME: FREESTYLE(R) CALC HYPOCHLORITE  
PRODUCT CODE: 09000  
CAS #: 007778543  
FORMULA: Ca(OCl)2  
CHEM. FAMILY: bleaching agents (oxidizers)  

CHEMICAL NAME AND SYNONYMS:  
Calcium Hypochlorite 65%; Calcium Hypochlorite 70%;  
FS Generic Chloro Shock; Freestyle Calc Hypochlorite;  
Pittchlor Calcium Hypochlorite; Pitttabs Calcium Hypochlorite;  
PPG Calcium Hypochlorite; PPG Calcium Hypochlorite 70%;  
PPG N-200 Calc Hypochlorite; PPG N-101 Calc Hypochlorite;  
Pitttabs Calc Hypochlorite; PPG Only 1 Calc Hypochlorite;  
Freestyle Calcium Hypochlorite; FS Calcium Hypochlorite;  
Freestyle Supershock Chlor; Pittchlor; Induclor;  
Chlormor Giant Tabs; Chlormor 65; Clormor 65; Chloro Shock;  
Sustain Calc Hypochlorite; Induclor Calcium Hypochlorite;  
Norweco Bio-Sanitizer Tablets; Bio-Sanitizer;  
MSDS No. 000382  

SUPPLIERS NAME: Harcros Chemicals Inc.  
5200 Speaker Road  
Kansas City  
KS 66106-1095  

SUPPLIERS PHONE NUMBER: 913-321-3131  
TRANSPORTATION EMERGENCY PHONE NUMBER: 1-800-424-9300  

S.A.R.A. INFORMATION  
HAZARDS: Acute  
PHYSICAL DATA: Mixture Solid  

SECTION I  HAZARDOUS INGREDIENTS  

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>MAX % W/W</th>
<th>SARAY</th>
<th>TWA/TLV (ppm)</th>
<th>AIR CONTAMINANT LEVELS (ppm)</th>
<th>SKIN AGENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Hypochlorite</td>
<td>75.0</td>
<td>Y N N</td>
<td>INDUSTRY RECOMMENDATION 2 mg/m3</td>
<td>STEL</td>
<td></td>
</tr>
<tr>
<td>Calcium Oxychloride</td>
<td>(CAS # 7778-54-3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION II  HEALTH HAZARDS  

Continued On Page 2
POTENTIAL EFFECTS OF EXPOSURE

EYES
Eye contact with product may cause severe irritation burns blindness

SKIN
Skin contact may cause severe irritation burns tissue destruction

INHALATION
Inhalation may cause irritation coughing pain decreased breathing capacity excess fluid retention (pulmonary edema)

INGESTION
Ingestion may cause burns tissue destruction even death

TARGET ORGANS
OVEREXPOSURE MAY CAUSE DAMAGE TO;
eyes respiratory system gastrointestinal tract kidneys liver

FIRST AID

FIRST AID EYES
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

FIRST AID SKIN
Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

FIRST AID INHALATION
Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

FIRST AID INGESTION
Do not induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call a physician immediately.

OTHER INFORMATION

ROUTES OF ENTRY
eye contact skin contact inhalation ingestion

CARCINOGEN STATUS
No components, present in excess of 0.1% by weight are listed as carcinogens by IARC, NTP, or OSHA.

SECTION III SPECIAL PROTECTION

PROTECTIVE EQUIPMENT
PROTECTIVE EQUIPMENT EYES
chemical goggles Do Not wear contact lenses when working with chemicals.

PROTECTIVE EQUIPMENT SKIN

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PRODUCT NAME: FREESTYLE(R) CALC HYPOCHLORITE
PRODUCT CODE: 09006

SECTION III SPECIAL PROTECTION

Impervious gloves rubber apron rubber boots clean body covering clothing

PROTECTIVE EQUIPMENT INHALATION

If exposure limits are exceeded, or if exposure may occur, use a NIOSH/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSH publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSH/MSHA approved positive pressure breathing apparatus should be readily available.

VENTILATION REQUIRED:
Adequate ventilation is required to minimize exposure or to maintain exposure levels below OSHA/ACGIH requirements. None normally required.

ADDITIONAL PROTECTIVE MEASURES
Safety shower, eye wash fountain, and washing facilities should be readily available.

SECTION IV FIRE & EXPLOSION HAZARD DATA

Flash Point (METHOD): > OR = N/A
Flammable Limits (v Volume in Air): UPPER: N/D Lower: N/D

HMIS Info
Health : 2
Fire : 0
React : 2
Special : X

EXTINGUISHING MEDIA
Water

FIRE FIGHTING PROCEDURES
Prevent human exposure to fire, fumes, smoke, and products of combustion. Evacuate non essential personnel. Firefighters should wear full face, self contained breathing apparatus and impervious protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS
Product does not burn, but can provide oxygen which can intensify a fire. Intense heat may cause pressure buildup and rupture container. Product is an oxidizer. It may react vigorously with organics or other materials resulting in an explosion and fire.

SECTION V PHYSICAL DATA

Boiling Point: N/D
Freezing Point: N/D
Specific Gravity (H2O = 1): > OR = 0.9800 @ 68 deg. F
Vapor Pressure (MM HG.): N/D

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PRODUCT NAME: FREESTYLE(R) CALC HYPOCHLORITE
PRODUCT CODE: 09000
25# F411-GR

SECTION V PHYSICAL DATA

Vapor Density (AIR=1): N/D
Evaporation Rate (NA =1): N/D
Solubility in Water: 17%
Percent Volatile by Volume: N/D
pH: aqueous approx. > OR = 8.000
Appearance:
SOLID - POWDER, CRYSTAL, FLAKE, GRANULE
TABLET, PILL, BRIQUETTE, ETC.
Odor:
SHARP

SECTION VI REACTIVITY DATA

STABILITY
Unstable.
INCOMPATIBILITY
inorganic acids, organic mixtures Avoid contact with strong reducing agents which include hydrogen, hydrazine, sulfides, sulfites, and aitrites. Product is an oxidizer. It may react vigorously with organics or other materials resulting in an explosion and fire.
CONDITIONS TO AVOID
Heat: heated surfaces, static electricity, electric arcs, sparks and flames.
HAZARDOUS POLYMERIZATION
Will not occur.

SECTION VII SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Sweep, shovel, or pick up and return to dry, clean container. Flush spill area with water. In Case of Spills: Neutralize, contain, and dispose of in accordance with Federal, State and local regulations.

DISPOSAL METHOD
Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable regulations under the Resource Conservation and Recovery Act. Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State

SECTION VIII

Proper Shipping Name: CALCIUM HYPOCHLORITE HYDRATED

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Kansas City, Kansas

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PRODUCT NAME: FREESTYLE(R) CALC HYPOCHLORITE  Date: 25-JUL-2003 07:44:38.88
PRODUCT CODE: 09000 25# PAIL-GR

SECTION VII SPILL AND LEAK PROCEDURES

Hazard Class: 5.1, UN2880, PGII
Label Requirements: oxidizer
Reportable Quantity: All shipments are reportable

SECTION IX ADDITIONAL INFORMATION

PRECAUTIONS
Do not get in eyes, on skin, or clothing. Keep from contact with clothing or other combustible materials. Do not swallow.

HANDLING
Keep heat, lights, fire, and sparks away. ATTENTION: This container hazardous when emptied. Since emptied container contains product residues (vapor or liquid), all labeled hazard precautions must be observed.

STORAGE
Keep container closed when not in use. Store in a cool dry place. Keep out of reach of children.

SECTION X COMPLIANCE INFORMATION

TSCA INVENTORY STATUS: Listed

NAME: GENE TURNER

DATE ISSUED: 921230
DATE REVISED: 921230
UNK = UNKNOWN

< = LESS THAN
N/A = NOT APPLICABLE
N/D = NOT DETERMINED
N/E = NOT ESTABLISHED

> = MORE THAN

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