

HARCROS CHEMICALS INC -- FREESTYLE(R) CALC HYPOCHLORITE -- 6810-00-255-0471
===== Product Identification =====

Product ID:FREESTYLE(R) CALC HYPOCHLORITE

MSDS Date:08/11/1999

FSC:6810

NIIN:00-255-0471

Status Code:A

MSDS Number: CJNFW

=== Responsible Party ===

Company Name:HARCROS CHEMICALS INC

Address:5200 SPEAKER RD

City:KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Info Phone Num:913-321-3131

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Emergency Phone Num:TRANS EMER: 800-424-9300

Resp. Party Other MSDS Num.:PRODUCT CODE: 09000 / MSDS #000382

Preparer's Name:GENE TURNER

Chemtrec Ind/Phone:(800)424-9300

CAGE:3H344

=== Contractor Identification ===

Company Name:CHEMICAL MANAGEMENT SYSTEMS LLC DBA CHEMICAL MANAGEMENT
SYST

Address:11029 NATURAL BRIDGE

Box:City:BRIDGETON

State:MO

ZIP:63044

Country:US

Phone:314-731-7278

Contract Num:SP0450-99-M-NH85

CAGE:1LFJ4

Company Name:HARCROS CHEMICALS INC

Address:5200 SPEAKER RD

Box:City:KAN

SAS CITY

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

Ingred Name:CALCIUM HYPOCHLORITE

CAS:7778-54-3

RTECS #:NH3485000

= Wt:75.

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

ORY

SYSTEM, GASTROINTESTINAL TRACT, KIDNEYS, LIVER. 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.

Explanation of Carcinogenicity:NO COMPONENTS,PRESENTINEXCESS OF 0.1% BY

WEIGHT ARE LISTED AS CARCINOGENS BY IARC,NTP,OR OSHA

Effects of Overexposure:EYES-BURNS.

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===== First Aid Measures =====

First Aid:EYES-IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MIN, WHILE HOLDING EYELIDS APART. CALL A PHYSICIAN. SKIN- IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR 15 MIN, WHILE REMOVING CONTAMINATED CLOTHES/SHOES. CALL A PHYSICIAN. INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRA

TION, PREFERABLY

MOUTH TO MOUTH. IF BREATHING IS DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN. 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.

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

Extinguishing Media:WATER.

Fire Fighting Procedures:PREVENT HUMAN EXPOSURE TO FIRE, FUMES,

SMOKE,AND PRODUCTS OF COMBUSTION. EVACUATE NONESSENTIAL PERSONNEL. FIREFIGHTERS SHOULD WEAR FULL FACE, SELF CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard: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.

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

Spill Release Procedures: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.

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

Handling and Storage Precautions:KEEP CONTAINERS CLOSED WHEN NOT IN USE. STORE IN A COOL DRY PLACE. KEEP OUT OF REACH OF CHILDREN. KEEP

HEAT, LIGHT, FIRE, AND SPARKS AWAY. ATTENTION: THIS CONTAINER HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINER CONTAINS PRODUCT RESIDUE, ALL LABELED HAZARD PRECAUTIONS MUST BE OBSERVED.

Other Precautions:DO NOT GET IN EYES, ON SKIN, OR CLOTHING. KEEP FROM CONTACT WITH CLOTHING OR OTHER COMBUSTIBLE MATERIALS. DO NOT SWALLOW.

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

Respiratory Protection: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, CONSULT YOUR SAFETY EQUIPMENT SUPPLIER. RESPIRATORY PROTECTION PROGRAMS MUST BE IN COMPLIANCE WITH OSHA REQUIREMENTS IN 29 CFR 1910.134.

Ventilation:ADEQUATE VENTILATION IS REQUIRED TO MINIMIZE EXPOSURE OR TO MAINTAIN EXPOSURE LEVELS BELOW OSHA/ACGIH REQUIREMENTS. NONE NORMALLY REQUIRED.

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:CHEMICAL GOGGLES. DO NOT WEAR CONTACT LENSES WHEN WORKING WITH CHEMICALS.

Other Protective Equipment:RUBBER APRON, RUBBER BOOTS, CLEAN BODY COVERING CLOTHING. SAFETY SHOWER, EYE WASH FOUNTAIN, AND WASHING FACILITIES SHOULD BE READILY AVAILABLE.

Supplemental Safety and Health
FOR EMERGENCIES, A NIOSH/MSHA APPROVED POSITIVE PRESSURE BREATHING APPARATUS SHOULD BE READILY AVAILABLE.

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

HCC:D1
Vapo

r Density:N/D

pH:=TO OR > 8.000

Solubility in Water:17%

Appearance and Odor:SOLID - POWDER, CRYSTAL, FLAKE, GRANULE TABLET,
PRILL, BRIQUETTE. ODOR: SHARP

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:NO

INORGANIC ACIDS, ORGANIC MIXTURES AVOID CONTACT WITH STRONG REDUCING
AGENTS WHICH INCLUDE HYDROGEN, HYDRAZINE, SULFIDES, SULFITES,&
NITRITES. PRODUCT IS AN OXIDIZER. MAY REACT VIGOROUSLY WITH
ORGANICS OR OTHER MATERIAL

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Stability Condition to Avoid:UNSTABLE. HEAT, HEATED SURFACES, STATIC
ELECTRICITY, ELECTRIC ARCS, SPARKS AND FLAMES.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:CALCIUM HYPOCHLORITE: INDUSTRY
RECOMMENDATION (PPG) STEL: 2 MG/M3.

===== Disposal Considerations =====

Waste Disposal Methods:MATERIAL THAT CANNOT BE USED OR CHEMICALLY
REPROCESSED SHO

ULD BE DISPOSED OF AT AN APPROVED FACILITY IN

ACCORDANCE WITH ANY APPLICABLE REGULATIONS UNDER RCRA. DISPOSE OF
MATERIAL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
LOCAL REGULATIONS MAY BE MORE STRINGENT THAN FEDERAL OR STATE.

===== MSDS Transport Information =====

Transport Information:PROPER SHIPPING NAME: CALCIUM HYPOCHLORITE

HYDRATED. HAZARD CLASS:5.1,UN2880,PGII. LABELREQUIREMENTS:OXIDIZER.

REPORTABLE QUANTITY: ALL SHIPMENTS

ARE REPORTABLE.

===== Regulatory Information =====

SARA Title III Information:312: YES. 313: NO. 372: NO.

Federal Regulatory Information:TSCA INVENTORY STATUS: LISTED.

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

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