

HARCROS CHEMICALS INC. -- SULFAMIC ACID -- 6810-00-146-1586

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

Product ID:SULFAMIC ACID

MSDS Date:11/03/1993

FSC:6810

NIIN:00-146-1586

MSDS Number: CGMFF

=== Responsible Party ===

Company Name:HARCROS CHEMICALS INC.

Address:5200-SPEAKER ROAD

Box:2383

City:KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Info Phone Num:913-321-3131

Emergency Phone Num:913-321-3131

CAGE:3H606

=== Contractor Identification ===

Company Name:HARCROS CH

EMICALS INC.

Address:5200-SPEAKER ROAD

Box:2383

City:KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Phone:913-321-3131

CAGE:3H606

Company Name:JEM SALES, INC.

Address:430 LAVENDER DRIVE

Box:City:ROME

State:GA

ZIP:30165-2262

Country:US

Phone:800-424-9300

CAGE:0AZ07

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

Ingred Name:SULFAMIC ACID

CAS:5329-14-6

RTECS #:WO5950000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

===== Hazards Identification ===

=====

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:EYE CONTACT MAY CAUSE IRRITATION, PAIN, TEARS, DAMAGE, BLINDNESS. SKIN CONTACT MAY CAUSE SEVERE IRRITATION, PAIN, SKIN DAMAGE. INHALATION MAY CAUSE IRRITATION, COUGHING, CHOKING, HEADACHE, DIZZINESS, WEAKNESS, BREATHING DIFFICULTY, PULMONARY EDEMA. INGESTION MAY CAUSE I

RRITATION, PAIN, SEVERE BURNS, GI TRACT UPSET.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:EYE PAIN/IRRITATION/TEARS/DAMAGE/BLINDNESS, SKIN IRRITATION/PAIN/DAMAGE, RESPIRATORY TRACT IRRITATION, COUGHING, CHOKING, HEADACHE, DIZZINESS, WEAKNESS, BREATHING DIFFICULTY, EXCESS FLUID RETENTION, T ISSUE DISCOLORATION, GI TRACT IRRITATION/PAIN/BURNS, VOMITING, DIARRHEA, TISSUE PERFORATION.

Medical Cond Aggravated by Exposure:DISSORDERS OF THE RESPIRATORY SYSTEM, SKIN.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INH ALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS. DILUTE STOMACH CONTENTS BY DRINKING WATER. CALL MD.

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

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY, FOAM, WATER FOG

Fire Fighting Procedures:PREVENT HUMAN EXPOSURE TO FIRE, FUMES, SMOKE, AND PRODUCTS OF COMBUSTION. FIREFIGHTERS SHOULD WEAR FULL FACE,

SELF CONTAINED BREATHING APPARATUS AND FULL GEAR.  
Unusual Fire/Explosion Hazard:VAPOR MAY TRAVEL TO SOURCE OF IGNITION  
AND FLASHBACK. TOXIC FUMES MAY BE RELEASED.

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

Spill Release Procedures:EVACUATE NONESSENTIAL PERSONNEL. ELIMINATE  
IGNITION SOURCES. WEAR PROTECTIVE EQUIPMENT. SHUT OFF SOURCE IF  
SAFE TO DO SO. CONTAIN SPILL. RECOVER FREE PRODUCT. ABSORB RESIDUE.  
IT MAY BE NECESSARY TO RE MOVE CONTAMINATED SOIL

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED WHEN NOT IN USE.  
STORE IN A COOL DRY PLACE. STORE IN ACCORDANCE WITH NFPA  
REQUIREMENTS. KEEP HEAT, LIGHTS, FIRE & SPARKS AWAY.  
Other Precautions:EMPTY CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS.  
DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE  
SUCH CONTAINERS TO HEAT, FLAME, SPARKS,  
STATIC ELECTRICITY OR OTHER  
SOURCES OF IGNITION. THEY MAY EXPLODE.

===== 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.

Ventilation:ADEQUATE VENTILATION IS REQUIRED TO MINIMIZE EXPOSURE OR TO  
MAINTAIN EXPOSURE LEVELS BELOW OSHA/ACGIH REQU  
IREMENTS.

Protective Gloves:ACID PROOF GLOVES

Eye Protection:CHEMICAL GOGGLES, FACE SHIELD

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO  
PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE  
AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER  
BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

WHEN DILUTING, ADD ACID TO WATER, NEVER WATER TO ACID. WHEN DILUTING,  
ADD PRODUCT SLOWLY

TO WATER WITH AGITATION.

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

HCC:C1

Boiling Pt:B.P. Text:>401F,>205C

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:NIL

Vapor Density:NOT GIVEN

Spec Gravity:2.1

pH:1.180

Viscosity:NOT GIVEN

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:APPRECIABLE

Appearance and Odor:SOLID POWDER, CRYSTAL, FLAKE, GRANULE TABLET,  
PRILL, BRIQUETTE, ETC, NO ODOR

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

===

Stability Indicator/Materials to Avoid:YES

INORGANIC BASES

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:OXIDES OF NITROGEN, OXIDES OF SULFUR,  
AMMONIA, AMINES

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

Waste Disposal Methods:MATERIAL THAT CANNOT BE USED OR CHEMICALL  
REPROCESSED SHOULD BE DISPOSED OF AT AN APPROPRIATE FACILITY IN  
ACCORDANCE WITH ANY APPLICABLE REGULATIONS UNDER THE RESOURCE  
CONSERVATIO

N AND RECOVERY ACT. D ISPOSE OF MATERIAL IN ACCORDANCE  
WITH ALL REGS.

=====

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.