

HACH COMPANY -- CAT#1055 SULFAMIC ACID POWDER PILLOWS -- 6850-01-200-8010

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

Product ID:CAT#1055 SULFAMIC ACID POWDER PILLOWS

MSDS Date:05/29/1998

FSC:6850

NIIN:01-200-8010

Status Code:A

MSDS Number: CKFGJ

=== Responsible Party ===

Company Name:HACH COMPANY

Box:389

City:LOVELAND

State:CO

ZIP:80539

Country:US

Info Phone Num:970-669-3050

Emergency Phone Num:303-623

-5716/515-232-2533

Resp. Party Other MSDS Num.:M00007

CAGE:91224

=== Contractor Identification ===

Company Name:HACH CO

Address:5600 LINDBERGH DR

Box:389

City:LOVELAND

State:CO

ZIP:80539

Country:US

Phone:970-669-3050/ 303-623-5716

CAGE:91224

Company Name:HACH COMPANY

Address:100 DAYTON RD.

Box:907

City:AMES

State:IA

ZIP:50010

Country:US

Phone:800-227-4224

CAGE:4T252

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

Ingred Name:SULFAMIC ACID

CAS:5329-14-6

RTECS #:WO5950000

&g

t; Wt:99.

Ingred Name:OTHER COMPONENT

< Wt:1.

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

LD50 LC50 Mixture:ORAL, RAT LD50 = 3,160 MG/KG.

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

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

Health Hazards Acute and Chronic:ACUTE EFFECTS: EYE CONTACT: CAUSES EYE BURNS. SKIN CONTACT: CAUSES SEVERE IRRITATION. SKIN ABSORPTION: NONE REPORTED. INHALATION: MAY CAUSE IRRITATION OF NOSE, THROAT, AND RESPIRAT

ORY TRACT. INGESTION : MAY CAUSE IRRITATION OF THE MOUTH, ESOPHAGUS, AND GASTROINTESTINAL TRACT. CHRONIC EFFECTS: NONE REPORTED. TARGET ORGANS: NONE REPORTED.

Explanation of Carcinogenicity:NOT LISTED BY O.S.H.A., IARC, NTP.

Effects of Overexposure:EYE CONTACT: BURNS. SKIN CONTACT: SEVERE IRRITATION. INGESTION: IRRITATION OF MOUTH, ESOPHAGUS, GASTROINTESTINALTRACT. INHALATION: IRRITATION OF NOSE, THROAT, AND RESPIRATORY TRACT.

Medical Cond Aggravated by Exposure:PRE-EXISTI NG EYE CONDITIONS, SKIN CONDITIONS, RESPIRATORY CONDITIONS.

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

First Aid:EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES. CALL PHYSICIAN. SKIN CONTACT: WASH SKIN WITH PLENTY OF WATER FOR 15 MINUTES. CALL PHYSICIAN IMMEDIATELY. INGESTION: DO NOT INDUCE VOMI TING. GIVE 1-2 GLASSES OF WATER. CALL PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: REMO VE TO FRESH AIR.

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

Extinguishing Media:DRY CHEMICAL, WATER.

Fire Fighting Procedures:AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS, PRESSURE-DEMAND, AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:MAY REACT VIOLENTLY WITH CHLORINE/CHLORINE COMPOUNDS, METAL NITRATES, METAL NITRITES, NITRIC ACID. STATIC DISCHARGE: NONE REPORTED. MECHANICAL IMPACT: NONE REPORTED.

=====
===== Accidental Re

Release Measures =====

Spill Release Procedures: STOP SPILL RELEASE. COVER SOLID MATERIAL WITH SAND OR OTHER INERT MATERIAL. SCOOP UP INTO LARGE BEAKER. DISSOLVE WITH WATER. ADJUST PH BETWEEN 6 AND 9 WITH ALKALI, SUCH AS SODA ASH OR SODIUM BICARBONATE. FLUSH REACTED MATERIAL TO DRAIN WITH LARGE EXCESS OF WATER. DECONTAMINATE AREA WITH SOAP SOLUTION. EVACUATE 15 FOOT RADIUS IF POUND OF LOOSE POWDER IS SPILLED; LARGER AREA IF CONDITIONS WARRANT.

Neutralizing

Agent: ALKALI MATERIAL SUCH AS SODA ASH OR SODIUM BICARBONATE.

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

Handling and Storage Precautions: HANDLING: AVOID CONTACT WITH EYES, SKIN. DO NOT BREATHE DUST. MAINTAIN GENERAL INDUSTRIAL HYGIENE PRACTICES WHEN USING THIS PRODUCT. STORAGE: STORE AWAY FROM OXIDIZERS, ALKALIES, CHLORINE/CHLORINATED METALS. PROTECT FROM HEAT, MOISTURE.

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

Respiratory

Protection: ADEQUATE VENTILATION FOR INHALATION PROTECTION. IN CASE OF FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS, PRESSURE-DEMAND.

Ventilation: ADEQUATE VENTILATION FOR INHALATION PROTECTION.

Protective Gloves: DISPOSABLE LATEX GLOVES.

Eye Protection: SAFETY GLASSES WITH TOP AND SIDE SHIELDS.

Other Protective Equipment: LAB COAT, HAVE AN EYE WASH STATION NEARBY.

Work Hygienic Practices: MAINTAIN GENERAL INDUSTRIAL HYGIENE PRACTICES WHEN USING PRODUCT. AVOID CONTACT WITH EYES, SKIN.

DO NOT BREATHE DUST. WASH AFTER HANDLING. KEEP AWAY FROM ALKALIES, METALS. PROTECT FROM HEAT, MOISTURE.

Supplemental Safety and Health

KEY1: C1. THIS ITEM IS NSN 6810-01-200-8010, CAGE 91224 WHICH IS PART 5 OF A 12 PART KIT. (10 PARTS HAZARDOUS). SEE THIS NSN AND PART 1-10 FOR THE MSDS'S WHICH ARE THE HAZARDOUS COMPONENTS OF THIS KIT. THE NON-HAZARDOUS ITEMS ARE NSN-01-350-9102; CARTRIDGE ELEMENT AND NSN: 4330-01-350-9101; FILTER.

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

al Properties =====

HCC:C1

Melt/Freeze Pt:=205.C, 401.F

Spec Gravity:2.15

pH:1.18

Solubility in Water:1:2 RATIO@ 176F

Appearance and Odor:SOLID WHITE CRYALS. NO ODOR.

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

Stability Indicator/Materials to Avoid:YES

MAY REACT VIOLENTLY IN CONTACT WITH CHLORATES, METAL NITRATES, METAL NITRITES, NITRIC ACID. INCOMPATIBLE WITH ALKALIES, OXIDIZERS.

Stability Condition to Avoid:STABLE WHEN STORED UNDER PROPER COND

ITIONS. AVOID HEATING TO DECOMPOSITION, EXCESS MOISTURE.

Hazardous Decomposition Products:HEATING TO DECOMPOSITION RELEASES TOXIC AND OR CORROSIVE FUMES OF AMMONIA, NITROGEN OXIDES, SULFUR OXIDES.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:ORAL RAT LD50=3,160 MG/KG. LC50: NONE REPORTED. DERMAL TOXICITY DATA: NONE REPORTED. SKIN AND EYE IRRITATION DATA: SKIN HUMAN 4%/5 DAYS INTE

RMITTENT= MILD. SKIN

RABBIT 500 MG/24H= SEVERE. EYE RABBIT 2 0 MG= MODERATE. EYE RABBIT 250 MICRO GM/ 24H= SEVERE. MUTATION DATA: NONE REPORTED.

REPRODUCTION DATA: NONE REPORTED.

===== Ecological Information =====

Ecological:NO ECOLOGICAL DATA AVAILABLE FOR THIS PRODUCT.

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

Waste Disposal Methods:DILUTE WASTE TO 3 TO 5 TIMES VOLUME WITH COLD WATER. ADJUST PH BETWEEN 6 AND 9 WIT

H ALKALI, SUCH AS SODA ASH OR

SODIUM BICARBONATE. OPEN COLD WATER TAP COMPLETELY, SLOWLY POUR REACTED MATERIAL TO DRAIN. EMPTY CONTAINERS: RINSE 3 TIMES WITH SOLVENT. RINSEATE MAY CONTAIN SUFFICIENT PRODUCT TO DISPOSE OF AS HAZARDOUS WASTE. CONSULT LOCAL REGULATORS.

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

Transport Information:D.O.T.: PROPER SHIPPING NAME: SULPHAMIC ACID, CLASS 8, UN 2967, PKG III. I.C.A.O.:SULPHAMIC ACID, CLASS 8, UN 2967, PKG III. I.M.O: SULPHAMIC ACID, CLASS 8, UN 2967, PKG III.

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

SARA Title III Information:SECTION 311/312CATEGPROZATION (40 CFR 370): IMMEDIATE (ACUTE) HEALTH HAZARD. SECTION 313 (40 CFR 372): THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313. 302 (EHS) TPQ (40 CFR 355): NOT APPLICABLE. 304 CERCLA RQ (40 CFR 302.4): NOT APPLICABLE. 304 EHS RQ (40 CFR 355

): NOT APPLICABLE. CLEAN WATER ACT (40 CFR 116.4): NOT APPLICABLE. RCRA: CONTAINS RCRA REGULATED SUBSTANCES, EPA WASTE ID NUMBER=D002. C.P.S.C.: NOT APPLICABLE.

Federal Regulatory Information:O.S.H.A.: THIS PRODUCT MEETS THE CRITERIA FOR A HAZARDOUS SUBSTANCE AS DEFINED IN THE HAZARD COMMUNICATION STANDARD, (29 CFR 1910.1200).

State Regulatory Information:CALIFORNIA PROP. 65: NO PROP. 65 LISTED CHEMICALS ARE PRESENT IN THIS PRODUCT. IDENTIFICATION OF PROP. 65 INGREDIENT: NOT APPLICABLE.

===== 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.