

SIGMA CHEMICAL CO -- SODIUM METASILICATE PENTAHYDRATE -- 6810-00-240-2121

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

Product ID:SODIUM METASILICATE PENTAHYDRATE

MSDS Date:11/29/1990

FSC:6810

NIIN:00-240-2121

MSDS Number: BPHHV

=== Responsible Party ===

Company Name:SIGMA CHEMICAL CO

Box:14508

City:ST. LOUIS

State:MO

ZIP:63178

Info Phone Num:800-325-8070

Emergency Phone Num:314-771-5765

CAGE:21076

=== Cont

ractor Identification ===

Company Name:SIGMA CHEMICAL COMPANY

Address:3050 SPRUCE ST

Box:14508

City:ST LOUIS

State:MO

ZIP:63178

Country:US

Phone:314-771-5765

CAGE:21076

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

Ingred Name:SODIUM METASILICATE,PENTAHYDRATE (TLV AS TOTAL DUST FROM  
ACGIH)

CAS:6834-92-0

RTECS #:VV9275000

Fraction by Wt: 100%

ACGIH TLV:10 MG/CUM T.DST

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

LD50 LC50 Mixture:1153 MG/KG (

ORAL-RAT)

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

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

Health Hazards Acute and Chronic:HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN - CAUSES BURNS. MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN. INHALATION MAY BE FATAL DUE TO RESULTING SPASMS AND EDEMA. CAUSES ULCERATION OF THE GASTROINTESTINAL SYSTEM.

Explanation of Carcinogenicity:

NO LISTED AS A KNOWN CARCINOGEN

Effects of Overexposure:EYE/NOSE:DUST WILL IRRITATE; EYES/SKIN: CONTACT WILL CAUSE BURNS. EXPOSURE MAY CAUSE HEADACHE, WHEEZING, SHORTNESS OF BREATH, NAUSEA, AND VOMITING.

Medical Cond Aggravated by Exposure:NONE LISTED BY MANUFACTURER, HOWEVER PERSONS WITH COMPROMISED PULMONARY SYSTEMS SHOULD BE EXTREMELY CAUTIOUS WHEN USING THIS SUBSTANCE.

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

First Aid:EYES/SKIN:FLUSH W/WATER FOR

15 MIN. SEPARATE EYELIDS WITH

FINGERS. REMOVE CONTAMINATED SHOES AND CLOTHING GET MEDICAL ATTENTION. IF INHALED, REMOVE TO FRESH AIR AND CALL PHYSICIAN IF BREATHING BECOMES DIFFICULT. IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

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

Extinguishing Media:NOT FLAMMABLE USE MEDIA APPROPRIATE FOR SURROUNDING FIRE (CO2, DRY CHEMICAL, ALCOHOL OR POLYMER FOAM, OR WATER SPRAY)

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:SHOVEL/SWEEP UP LOOSE MATERIAL & PLACE IN APPROPRIATE CONTAINER. BE SURE AND WEAR PROTECTIVE EQUIPMENT (RESPIRATOR, SAFETY GOGGLES, RUBBER BOOTS AND GLOVES. VENTILATE AREA AND WASH SPILL SITE AFTER PICK UP IS COMPLETE.

Neu

tralizing Agent:NONE LISTED

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

Handling and Storage Precautions:USE ONLY IN A CHEMICAL FUME HOOD WITH PROPER PROTECTIVE EQUIPMENT.

Other Precautions:AVOID SKIN AND EYE CONTACT. AVOID INHALATION OF SOLID MATERIAL.

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

Respiratory Protection:NIOSH/OSHA APPROVED RESPIRATOR. WORK SO AS TO MINIMIZE DUST GENERATION.

Ventilation:LOCAL EXHAUST

Protective Glove

s:RUBBER/PLASTIC

Eye Protection:GOGGLES

Other Protective Equipment:AS REQUIRED FOR JOB UNDER CONSIDERATION

Work Hygienic Practices:WASH EXPOSED SKIN AND EYE SURFACES THOROUGHLY AFTER EXPOSURE

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:APPRECIABLE

Appearance and Odor:WHITE POWDER

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

Stability Indicator/Materials to Avoid:YES  
NOT LISTED BY MFG

Stability Condition to Avoid:NOT LISTED BY MFG.

Hazardous Decomposition Products:SILICON OXIDE

Conditions to Avoid Polymerization:WILL NOT POLYMERIZE

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

Waste Disposal Methods:DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A PERMITTED CHEMICAL INCINERATOR. FOLLOW ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

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