

SIGMA CHEMICAL CO -- HEPARAN SULFATE SODIUM FROM BOVINE KIDNEY, H9637 -
- 6505-00N093134

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

Product ID:HEPARAN SULFATE SODIUM FROM BOVINE KIDNEY, H9637

MSDS Date:01/01/1999

FSC:6505

NIIN:00N093134

Status Code:A

MSDS Number: CJXKQ

=== Responsible Party ===

Company Name:SIGMA CHEMICAL CO

Box:14508

City:ST LOUIS

State:MO

ZIP:63178

Country:US

Info Phone Num:314-771-5765

Emergency Phone Num:314-771-5765

CAGE:21076

=== Contractor 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:HEPARAN SULFATE SODIUM

CAS:57459-72-0

= Wt:100.

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

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

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

Health Hazards Acute and Chronic:ACUTE EFFECTS: MAY BE HARMFUL BY
INHALATION, INGESTION OR SKIN ABSORPTION. MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION. MATERIAL MAY BE IRRITATING TO MUCOUS
MEMBRANES AND UPPER RESPIRATORY TRA CT. TARGET ORGAN: BLOOD. TO THE
BEST OF MANUFACTURER'S KNOWLEDGE, THE CHEMICAL, PHYSICAL AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

Effects of Overexposure:SEE HEATLH HAZARDS.

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

First Aid:INGESTION: IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED
PERSON IS CONSCIOUS. CALL A PHYSICIAN. SKIN: IN CASE OF SKIN
CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15
MINUTES. REMOVE CO NTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.
INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES
DIFFICULT, CALL A PHYSICIAN. EYES: IN CASE OF CONTACT WITH EYES,
FLUSH WITH COPIOUS A MOUNTS OF WATER FOR AT LEAST 15 MINUTES.
ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS.
CALL A PHYSICIAN.

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

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE
FOAM. WATER SPRAY.

Fire Fighting Procedures:USE NIOSH APPROVED SCBA AND FULL PROTECTIVE
EQUIPMENT TO PREVENT CONTACT WITH SKIN AND EYES.

Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

Spill Release Procedures:WEAR NIOSH APPROVED RESPIRATOR, CHEMICAL
SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES. SWEEP UP,

PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS
COMPLETE.

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

Handling and Storage Precautions:DO NOT BREATHE DUST. AVOID CONTACT
WITH EYES, SKIN AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING. KEEP TIGHTLY CLOSED. STORE IN A
COOL, DRY PLACE.

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

Respiratory Protection:NIOSH APPROVED RESPIRATOR.
Ventilation:MECHANICAL EXHAUST.
Protective Gloves:COMPATIBLE CHEMICAL-RESISTANT GLOVES.
Eye Protection:ANSI APPROVED CHEMICAL WORKERS GOGGLES .
Other Protective Equipment:ANSI APPROVED EYE WASH AND DELUGE SHOWER .
Supplemental Safety and Health

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

Appearance and Odor:SOLID.

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

Stability Indicator/Materials to Avoid:YES
Hazardous Decomposition Products:TOXIC FUMES OF CARBON MONOXIDE, CARBON
DIOXIDE. NITROGEN OXIDES. SULFUR OXIDES.

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

Toxicological Information:SEE HEALTH HAZARDS.

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

Ecological:DATA NOT YET AVAILABLE.

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

Waste Disposal Methods:DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE
SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN
AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL
ENVIRONMENTAL REGULATIONS.

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

Transport Information:CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION
INFORMATION.

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

Federal Regulatory Information:EUROPEAN INFORMATION - CAUTION:
SUBSTANCE NOT YET FULLY TESTED.

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

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