

MALLINCKRODT/BAKER -- SODIUM SULFATE ANHYDROUS -- 6550-00-299-8176

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

Product ID:SODIUM SULFATE ANHYDROUS

MSDS Date:03/05/1997

FSC:6550

NIIN:00-299-8176

Status Code:A

MSDS Number: CJMMR

=== Responsible Party ===

Company Name:MALLINCKRODT/BAKER

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Info Phone Num:908-859-2151

Emergency Phone

Num:24 HR:908-859-2151/CAN 613-996-6666

Resp. Party Other MSDS Num.:S5018

Chemtrec Ind/Phone:(800)424-9300

CAGE:LO895

=== Contractor Identification ===

Company Name:MALLINCKRODT/BAKER

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Phone:908-859-2151

CAGE:LO895

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

Ingred Name:SODIUM SULFATE

CAS:7757-82-6

RTECS #:WE1650000

Minumum % Wt:90.

Maxumum % Wt:100.

===== Hazards Ide

ntification =====

Health Hazards Acute and Chronic:INHALATION-NOT EXPECTED TO BE A HEALTH HAZARD. INGESTION-MILDLY TOXIC BY INGESTION. SLOWLY ABSORBED FROM THE ALIMENTARY TRACT.BECAUSE OF OSMOTIC ACTIVITY, IT WILL DRAW WATER INTO THE LUMEN OF THE BOWE L & MAY CAUSE PURGING, FLUID LOSS, BLOOD IN STOOL, FALL OF BLOOD PRESSURE & HIGH SODIUM LEVELS IN THE BLOOD. SKIN-NO ADVERSE EFFECTS EXPECTED. EYE-NO ADVERSE EFFECTS EXPECTED BUT DUST MAY CAUSE MECHAN ICAL IRRITATION. CHRONIC: NO INFORMATION FOUND.

Medical Cond Aggravated by Exposure:NO INFORMATION FOUND.

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

First Aid:INHALATION-NOT EXPECTED TO REQUIRE FIRST AID MEASURES. INGESTION-GIVE SEVERAL GLASSES O WATER TO DRINK TO DILUTE. IF LARGE VOLUMES WERE SWALLOWED, GET MEDICAL ADVICE. SKIN-WASH EXPOSED AREA WITH SOAP AND WATER. GET MEDICAL ADVICE IF IRRITATION DEVELOPS. EYE-WASH THOROUGHLY WITH RUNNING WATER.GET MEDICAL ADVICE IF IRRITATION DEVELOPS.

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

Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE. NOT CONSIDERED TO BE A FIRE HAZARD.
Fire Fighting Procedures:USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE. USE PROTECTIVE CLOTHING AND BREATHING EQUIPMENT APPROPRIATE FOR THE SURROUNDING FIRE.
Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE AN EXPLOSION HAZARD, BUT VIOLENT E
XPLOSIONS OCCUR WHEN POTASSIUM SULFATE AND SODIUM SULFATE ARE MELTED WITH ALUMINUM.

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

Spill Release Procedures:VENTILATE ARE OF LEAK OR SPILL. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. SWEEP UP AND CONTAINERIZE FOR RECLAMATION OR DISPOSAL. VACUUMING OR WET SWEEPING MAY BE USED TO AVOID DUST DISPERSAL.

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

Handling and Storage Precautions:KEEP

IN A TIGHTLY CLOSED CONTAINER,
STORED IN A COOL, DRY, VENTILATED AREA. PROTECT AGAINST PHYSICAL
DAMAGE. ISOLATE FROM INCOMPATIBLE SUBSTANCES. CONTAINERS OF THIS
MATERIAL MAY BE HAZARDOUS WHEN EMP TY SINCE THEY RETAIN PRODUCT
RESIDUES; OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE
PRODUCT.

Other Precautions:AS PART OF GOOD INDUSTRIAL AND PERSONAL HYGIENE AND
SAFETY PROCEDURES, AVOID ALL UNNECESSARY EXPOSURE TO THE CHEMICAL
SUBSTANCE AND ENSURE PROMPT REMOVAL FROM
SKIN, EYES AND CLOTHING.

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

Respiratory Protection:PERSONAL RESPIRATORS (NIOSH APPROVED): FOR
CONDITIONS OF USE WHERE EXPOSURE TO DUST OR MIST IS APPARENT, A
HALF-FACE DUST/MIST RESPIRATOR MAY BE WORN. FOR EMERGENCIES OR
WHERE EXPOSURE LEVELS ARE NOT KNOWN, USE FULL-FACE
POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR. WARNING: AIR PURIFYING
RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

Vent
ilation:DILUTION VENTILATION IS OKAYFOR HEALTH HAZARD CONTROL OF
THIS SUBSTANCE. IF CONDITIONS OF USE CREATE DISCOMFORT TO WORKER,
LOCAL EXHAUST SYSTEM BE CONSIDERED.

Protective Gloves:WEAR PROTECTIVE GLOVES

Eye Protection:USE CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:MAINTAIN EYE WASH FOUNTAIN & QUICK-DRENCH
FACILITIES IN WORK AREA.

Work Hygienic Practices:CLEAN BODY-COVERING CLOTHING.

Supplemental Safety and Health

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

HCC:N1

Melt/Freeze Pt:=843.9C, #####F

Vapor Density:2.68

Solubility in Water:3.6 PARTS H2O,1 IN 2 MAX.

Appearance and Odor:FINE WHITE CRYSTALLINE GRANULES. ODORLESS.

Percent Volatiles by Volume:@21C(70F):0

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

Stability Indicator/Materials to Avoid:YES
IN COMBINATION WITH SODIUM SULFATE, ALUMINUM AND MAGNESIUM WILL EXPLODE
@ 800C (1472C); STRONG MINERAL ACIDS AND BASES.

Stability Condition to Avoid:AIR, MOISTU

RE, AND INCOMPATIBLES. STABLE
IN TIGHTLY CLOSED CONTAINERS UNDER NORMAL CONDITIONS OF STORAGE.
Hazardous Decomposition Products:OXIDES OF SULFUR AND SODIUM MAY FORM
WHEN HEATED TO DECOMPOSITION.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:NO LD50/LC50 INFORMATION FOUND RELATING TO
NORMAL ROUTES OF OCCUPATIONAL EXPOSURE. INVESTIGATED AS A
TUMORIGEN, MUTAGEN, REPRODUCTIVE EFFECTOR.
SODIUM SULFATE: NONE.

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

Ecological:ECOLOGICAL: ENVIRONMENTAL FATE-WHEN RELEASED INTO THE SOIL,
THIS MATERIAL IS EXPECTED TO LEACH INTO GROUNDWATER. THIS MATERIAL
IS NOT EXPECTED TO SIGNIFICANTLY BIOACCUMULATE. ENVIRONMENTAL
TOXICITY-THIS MATERIAL IS NOT EXPECTED TO BE TOXIC TO AQUATIC
LIFE. THE LC50/96-HOUR VALUES FOR FISH ARE OVER 100 MG/L. THE
EC50/48-HOUR VALUES FOR DAPHNIA ARE OVER 100 MG/L.

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

Waste Disposal Methods:WHAT CANNOT BE SAVED FOR RECOVERY OR RECYCLING
SHOULD BE MANAGED IN AN APPROPRIATE & APPROVED WASTE DISPOSAL
FACILITY. PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY
CHANGE THE WASTE MANAGEMENT OPTIONS. DISPOSE OF CONTAINER &
UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REQUIREMENTS.

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

Transport Information:NOT REGULATED.

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

SARA Title III Information:NONE.
Federal Regulatory Information:NONE.

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

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