

MALLINCKRODT INC., SCIENCE PRODUCTS DIV -- NICKEL(II) SULFATE HEXAHYDRATE --  
6810-00-237-2909

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

Product ID:NICKEL(II) SULFATE HEXAHYDRATE

MSDS Date:08/07/1985

FSC:6810

NIIN:00-237-2909

MSDS Number: BMTWN

=== Responsible Party ===

Company Name:MALLINCKRODT INC., SCIENCE PRODUCTS DIV

Box:M

City:PARIS

State:KY

ZIP:40361-0315

Country:US

Info Phone Num:314-895-2000

Emer

gency Phone Num:314-982-5000

CAGE:1BF21

=== Contractor Identification ===

Company Name:MALLINCKRODT INC., SCIENCE PRODUCTS DIV

Box:M

City:PARIS

State:KY

ZIP:40361-0315

Country:US

Phone:314-982-5000

CAGE:1BF21

Company Name:SHAPE PRODUCTS

Address:1127 57TH AVE.

Box:City:OAKLAND

State:CA

ZIP:94621-4427

Country:US

Phone:510-534-1186 OR 800-444-0015

CAGE:3D869

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

Ingred Name:NICKEL SULFATE HEXAHYDRATE

CAS:10101-97-0

RTECS #:QR9600000

Fraction by Wt: 100%  
Other REC Limits:NONE SPECIFIED BY M.  
OSHA PEL:0.1 MG/M3 (NI)  
ACGIH TLV:0.1 MG/M3 (NI); 8990

=====  
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-MAY CAUSE IRRITATION TO THE  
EYES, SKIN AND PULMONARY TRACT. INGESTION:IRRITATION TO GI TRACT,  
CNS DEPRESSION, KIDNEY AND LIVER DAMAGE.  
Explanation of Carcinogenicity:SOME NICKLE COMPOUNDS ARE ANTICIPATED TO  
BE CARCINOGENIC.  
Effects of Overexposure:INGESTION: DIARRHEA,NAUSEA,VOMITING.  
EYES/SKIN:IRRITATION AND DISCOMFORT, EYE DAMAGE. INHALATION:COUGHING,  
SOAR THROAT AND SHORTNESS OF BREATH.  
Medical Cond Aggravated by Exposure:SKIN DISORDERS, ASTHMA AND OTHER  
PULMONARY DISEASES.

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

First Aid:SKIN:WASH W.SOAP & WATER. EYES:FLUSH WITH WATER FOR 15 MIN.  
INGESTION:GIVE 2  
-3 GLASSES OF WATER; INDUCE VOMITING. CALL A  
PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF  
NEED. KEEP WARM & QUIET. REMOVE CONTAMINATED CLOTHING. IF  
UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH.

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

Flash Point:NONE  
Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE  
Fire Fighting Procedures:FIRE FIGHTERS SHOULD BE EQUIPED WITH  
SELF-CONTAINED BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

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

Spill Release Procedures:VENTILATE AREA. USE APPROP RESPIRATORY  
PROTECTION. AVOID CREATING DUST. VACUUM UP & CONTAINERIZE FOR  
RECLAMATION OR DISPOSAL. VACUUMING OR WET SWEEPING MAY BE USED TO  
AVOID DUST DISPERSAL.

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

Handling and Storage Precautions:STORE IN COOL,DRY,WELL VENTILATED  
AREA.

PROTECT FROM PHYSICAL DAMAGE.AVOID ANY PHYSICAL CONTACT. KEEP  
CONTAINERS TIGHTLY CLOSED

Other Precautions:ISOLATE FROM OXIDIZERS.

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

Respiratory Protection:NONE NORMALLY REQUIRED. UNDER DUSTY CONDITIONS  
USSE DUST MASK/RESPIRATOR. FOR EMERGENCY,USE SCBA.

Ventilation:LOCAL EXHAUST

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES

Other Protective Equipment:WEAR CLEAN BODY-COVRG CLOTHES.KEEP EYE WASH/  
SHOWER AVA

ILABLE

Work Hygienic Practices:DO NOT EAT IN WORK AREA.

Supplemental Safety and Health

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

HCC:C3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:1544F DECOM

Melt/Freeze Pt:M.P/F.P Text:212F,100C

Spec Gravity:2.07

Solubility in Water:62% APPRECIABLE

Appearance and Odor:DEEP GREEN TRANSPARENT CRYSTALS.ODORLESS.

Percent Volatiles by Volume:00

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

Stability Indica

tor/Materials to Avoid:YES

NO INFORMATION FOUND.

Stability Condition to Avoid:EXCESSIVE HEAT & MOISTURE

Hazardous Decomposition Products:WHEN HEATED TO DECOMPOSITION IT EMITS  
OXIDES OF SULFUR

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

Waste Disposal Methods:DISPOSAL MUST BE MADE IN COMPLIANCE WITH  
LOCAL,STATE & FEDERAL REGULATIONS.

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.