View NSN Online: https://aerobasegroup.com/nsn/6810-00-281-2684

Product ID:NICKEL SULFATE MSDS Date:04/15/1999 FSC:6810 NIIN:00-281-2684 Status Code:A MSDS Number: CKTJZ === Responsible Party === Company Name: MALLINCKRODT BAKER INC Address:222 RED SCHOOL LANE City:PHILLIPSBURG State:NJ ZIP:08865-2219 Country:US Info Phone Num:908-859-2151/ 800-582-2537 Emergency Ph one Num:800-424-9300 Resp. Party Other MSDS Num.:N3122 Preparer's Name:STRATEGIC SERVICES DIV Chemtrec Ind/Phone:(800)424-9300 CAGE:70829 === Contractor Identification === Company Name: MALLINCKRODT BAKER, INC. Address:222 RED SCHOOL LANE Box:City:PHILLIPSBURG State:NJ ZIP:08865 Country:US Phone:800-582-2537 CAGE:70829 Company Name: PHOENIX INDUSTRIES INC Address:1519 CHAMBERLAYNE PARKWAY Box:City:RICHMOND State:VA ZIP:23222 Country:US Phone:804-264-5183/FAX: 264-5535 Contract Num:SP0450-00-M-SJ9

2 CAGE:0YED2

Ingred Name:NICKEL SULFATE CAS:7786-81-4 RTECS #:QR9350000 Minumum % Wt:90. Maxumum % Wt:100. OSHA PEL:1 MG/M3 ACGIH TLV:0.1 MG/M3 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

LD50 LC50 Mixture:NO INFORMATION FOUND Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES Health Hazards Acute and Chroni c:INHALATION: CAUSES IRRITATION OF

RESPIRATORY TRACT, LUNG DAMAGE. LUNG ALLERGY OCCASIONALLY OCCURS, WITH ASTHMA TYPE SYMPTOMS. INGESTION: TOXIC. ABSORPTION IS POOR, BUT SHOULD IT OCCUR, CAUSES CNS DEPR ESSION & KIDNEY & LIVER DAMAGE. SKIN: CAUSES IRRITATION. MAY CAUSE SKIN ALLERGY WITH ITCHING, REDNESS OR RASH. SOME INDIVIDUALS MAY BECOME SENSITIZED TO THE SUBSTANCE.AND SUFFER "NICKEL ITCH" A FORM O F DERMATITIS. EYE CONTACT: CAUSES IRRITATION, REDNESS, PAIN. CHRONIC EXPOSURE:

PROLONGED OR REPEATED EXPOSURE MAY AFFECT LUNGS, LIVER AND KIDNEYS. CHRONIC EXPOSURE TO NICKEL & NICKEL COMPOUNDS IS ASSO CIATED WITH CANCER.

Explanation of Carcinogenicity: IARC CATEGORY 1 CARCINOGEN. LISTED AS ANTICIPATED NTP CARCINOGEN.

Effects of Overexposure:INHALATION: IRRITATION TO THE RESPIRATORY TRACT, COUGHING, SORE THROAT & SHORTNESS OF BREATH. LUNG DAMAGE MAY RESULT FROM A SINGLE HIGH EXPOSURE OF LOWER REPEATED EXPOSURES. LUNG ALLERGY OCCASIONALL

Y OCCURS, WITH ASTHMA TYPE SYMPTOMS. INGESTION: ABDOMINAL PAIN, DIARRHEA, NAUSEA & VOMITING. ABSORPTION: GIDDINESS, CAPILLARY DAMAGE, MYOCARDIAL WEAKNESS, CNS DEPRESSION & KIDNEY & LIVER DAMAGE. SKIN:IR RITATION, ITCHING, REDNESS OR RASH.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, IMPAIRED RESPIRATORY OR PULMONARY FUNCTION, OR WITH A HISTORY OF ASTHMA, ALLERGIES, OR SENSITIZATION TO NICKEL COMPOUNDS MAY BE AT AN INCREASED RISK?

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First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTN. INGESTION: INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTHTO AN UNCONSCIOUS PERSON. GET MEDICAL ATTN. SKIN: WIPE OFF EXCESS MATERIAL FROM SKIN THEN IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINS. REMOV E

CONTAMINATED CLOTHING & SHOES. GET MEDICAL ATTN. WASH CLOTHING & THOROUGHLY CLEAN SHOES BEFORE REUSE. EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINS., LIFTING LOWER & UPPER EY ELIDS. GET MEDICAL ATTN.

Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARA

TUS WITH FULL

FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE A FIRE HAZARD. NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

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

DUST DISPERSAL. US REGULATIONS (CERCLA) REQUIRE REPORTING SPILL & RELEASES TO SOIL, WATER & AIR IN EXCESS OF REPORTABLE QUANTITIES. THE TOLL FREE NUMBER FOR THE US COAST GUARD NATIONAL RESPONSE CENTER IS 800-424-8802 Neutralizing Agent:NOT PROVIDED BY RESPONSIBLE PARTY.

Neutralizing Agent. NOT PROVIDED BY RESPONSIBLE PARTY.

Handling and Storage Precautions: KEEP IN A TIGHTLY CLOSED CONTAINER, STORED IN A COOL, DRY, VENTILATED AREA. PROTECT AGAINST PHYSICAL DAMA

- GE. ISOLATE FROM INCOMPATIBLE SUBSTANCES. AREAS IN WHICH EXPOSURE TO NICKEL METAL OR SOLUBLE NI CKELCOMPOUND MAY OCCUR SHOULD BE IDENTIFIED BY SIGNS OR APPROPRIATE MEANS, AND ACCESS TO THE AREA
- Other Precautions: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (DUST, SOLID); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT.

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

Respiratory Protection: IF THE E

XPOSURE LIMIT IS EXCEEDED, A HALF-FACE

DUST/MIST RESPIRATORY MAY BE WORN FOR UP TO TEN TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE CONCENTRATION SPECIIFED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST. A FULL-FACE PIECE DUST/MIST RESPIRATOR MAY BE WORN UP TO 50 TIMES THE EXPOSURE LIMIT, OR THE MAXIMUM USE CONCENTRAT

Ventilation: A SYSTEM OF LOCAL &/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE L

IMITS. LOCAL

EXHAUST VENTILATION IS GENERALLY

Protective Gloves: RUBBER OR NEOPRENE GLOVES.

Eye Protection:USE CHEMICAL SAFETY GOGGLES &/OR FULL FACE SHIELD WHERE DUSTING OR SPLASHING

Other Protective Equipment: IMPERVIOUS BOOTS, APRON, OR COVERALLS, AS NEEDED IN AREAS OF UNUSUAL EXPOSURE. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

Work Hygienic Practices: EATING, DRINKING, AND SMOKING SHOULD NOT BE PERMITTED IN AREAS WHERE SOLIDS OR LIQUIDS CONTAINING SOLUBLE

NICKEL COMPOUNDS ARE HANDLED, PROCESSED, OR STORED. Supplemental Safety and Health

NIOSH RECOMMENDS PRE-PLACEMENT AND PERIODIC MEDICAL EXAMS, WITH MAINTAINING OF RECORDS FOR ALL EMPLOYEES EXPOSED TO NICKEL IN THE WORKPLACE.

HCC:C3 Boiling Pt:=103.C, 217.4F B.P. Text:(LOSES 6H2O) Melt/Freeze Pt:=100.C, 212.F M.P/F.P Text:LOSES WATER Vapor Pres:NO INFORMATION FOUND Spec Gravity:2.03 pH:CA. 4.5 Evaporation Ra te & Reference:NO INFORMATION FOUND Solubility in Water:75.6 G/100 CC WATER@15.5C Appearance and Odor:BLUE-GREEN CRYSTALS; ODORLESS. Percent Volatiles by Volume:0

Stability Indicator/Materials to Avoid:YES STRONG ACIDS. Stability Condition to Avoid:INCOMPATIBLES. STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. AT 53.3C (128F), THE SUBSTANCE UNDERGOES TRANSITION TO TRANSPARENT GREEN CRYSTALS. SOLUTIONS ARE

ACIDIC.

Hazardous Decomposition Products:BURNING MAY PRODUCE SULFUR OXIDES. Conditions to Avoid Polymerization:WILL NOT OCCUR

Toxicological Information:NO LD50/LC50 INFORMATION FOUND RELATING TO NORMAL ROUTES OF OCCUPATIONAL EXPOSURE. INVENTIGATED AS A TUMORIGEN AND MUTAGEN.

Ecological:ENVIRONMENTAL FATE: NO INFORMATION FOUND. ENVIRONMENTAL TOXIC

ITY: NO INFORMATION FOUND.

Waste Disposal Methods:PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE & LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE OF CONTAINER & UNUSED CONTENTS I/A/W FEDERAL, STATE AND LOCAL REQUIREMENTS. SEE OTHER INFORMATION DETAIL.

Transpo

rt Information:PROPER SHIPPING NAME: RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOILD, N.O.S. (NICKEL SULFATE). HAZARD CLASS: 9. UN/NA: UN3077. PACKING GROUP: III. INFORMATION REPORTED FOR PRODUCT/SIZE: 100 LB.

SARA Title III Information:SARA 302 RQ: NO, SARA 302 TPQ: NO, SARA 313 LIST: NO, SARA 313 CHEMICAL CATEGORY: NICKEL COMPOUND. SARA 311/312: ACUTE: YES, CHRONIC: YES, FIRE: NO, PRESSURE: NO, REACT

IVITY: NO.

- Federal Regulatory Information:TSCA: YES. CERCLA: 100. RCRA 26.33: NO. TSCA 8(D): NO. CHEMICAL WEAPONS CONVENTION: NO. TSCA 12 (B): NO. CDTA: NO.
- State Regulatory Information: WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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