

NICKEL SULFATE

MSDS Number

BHCFQ

National Stock Number

6810-00-209-7459

Product Name

NICKEL SULFATE

Manufacturer

FISHER SCIENTIFIC CHEMICAL DIV

Product Identification

Product ID:NICKEL SULFATE

MSDS Date:10/12/1988

FSC:6810

NIIN:00-209-7459

MSDS Number: BHCFQ

Responsible Party

FISHER SCIENTIFIC CHEMICAL DIVISION

1 REAGENT LANE

FAIR LAWN , NJ 07410

Emergency Phone: 201-796-7523

Info Phone: 201-796-7100

Cage: 1B464

Contractor

FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

FAIRLAWN, NJ 07410-2802

US

201-796-7100

Cage: 1B464

Ingredients

NICKEL SULFATE HEXAHYDRATE

CAS: 10101-97-0

RTECS: QR9600000

Fraction By Weight: > 99.0%

OSHA PEL0.1 MG/M3 (NI)

ACGIH TLV: 0.1 MG/M3 (NI); 8990

Hazards

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 275 MG/KG

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

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

Health Hazards Acute and Chronic:ACUTE: IRRITATION OF MUCOUS MEMBRANES OF UPPER RESPIRATORY TRACT, SENSITIZATION DERMATITIS, CONJUNCTIVA, REDNESS AND PAIN OF EYES, IRRITATION, VOMITING AND DIARRHEA.

CHRONIC: POSSIBLE CANCER OF THE NA SAL PASSAGES AND LUNGS.

REVERSIBLE ADVERSE EFFECTS ON MALE REPRODUCTIVE ORGANS.

Explanation of Carcinogenicity:NTP & IARC INDICATE SUFFICIENT EVIDENCE

OF NICKEL AND CERTAIN NICKEL COMPOUNDS TO BE SUSPECTED CARCINOGENS.

Effects of Overexposure:SEE HEALTH HAZARDS DATA

Medical Cond Aggravated by Exposure: PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid

First Aid: INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION: INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

Fire Fighting

Extinguishing Media: USE CARBON DIOXIDE, HALON, FOAM, DRY CHEMICAL, OR WATER FOG.
Fire Fighting Procedures: MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. DO NOT SCATTER SPILLED MATERIAL WITH HIGH PRESSURE WATER STREAMS. DIKE FOR CONTROL WATER FOR LATER DISPOSAL.
Unusual Fire/Explosion Hazard: USE AGENTS SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING HAZARDOUS VAPORS OR DUSTS, KEEP UPWIND.

Accidental Release

Spill Release Procedures: SOIL SPILL: DIG HOLDING AREA AND COVER TO PREVENT DISSOLVING. WATER SPILL: NEUTRALIZE WITH CAUSTIC SODA.
OCCUPATIONAL SPILL: STOP LEAK W/OUT RISK. TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CLEAN, DRY CONTAINER.
ISOLATE HAZARD AREA!
Neutralizing Agent: CAUSTIC SODA.

Handling

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.
Other Precautions: DO NOT TAKE INTERNALLY. AVOID PROLONGED OR REPEATED BREATHING OF DUST. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

Exposure Controls

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE AND DUST/MIST PRE-FILTER RESPIRATORS AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/ WARNINGS AND NIOSH-RESPIRATOR SELECTION.
Ventilation: MECHANICAL (GENERAL) ROOM VENTILATION IS NORMALLY ADEQUATE. LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA NOT VENTED.
Protective Gloves: NEOPRENE, NITRILE, VPC OR NATURAL RUBBER
Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD
Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER.
INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.
Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.
Supplemental Safety and Health
AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT WEAR CONTACT LENSES.

Chemical Properties

HCC: C3
Boiling Pt: B.P. Text: 217F, 103C
Melt/Freeze Pt: M.P/F.P Text: 128F, 53C
Vapor Pres: 0.0
Spec Gravity: 2.07
pH: 4.0
Solubility in Water: 40% @ 20C

Appearance and Odor:ODORLESS, BLUE OR EMERALD GREEN, EFFLORESCENT
CRYSTALS W/ SWEET ASTRINGENT TAST

Stability

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, OPEN FLAMES.

MAY BURN BUT DOES NOT READILY IGNITE.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY

INCLUDE TOXIC AND HAZARDOUS SULFUR OXIDES.

Conditions to Avoid Polymerization:ABNORMAL TEMPERATURES AND PRESSURES.

Disposal

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL
APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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