

FISHER SCIENTIFIC -- N-54, NICKELOUS CHLORIDE HEXAHYDRATE -- 6810-00-984-9778

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

Product ID:N-54, NICKELOUS CHLORIDE HEXAHYDRATE

MSDS Date:10/01/1991

FSC:6810

NIIN:00-984-9778

MSDS Number: BPQVX

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num

:201-796-7100;800-424-9300(CHEMTREC)

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name:NICKEL (III) CHLORIDE, HEXAHYDRATE (1:2:6); (NICKELOUS
CHLORIDE HEXAHYDRATE)

CAS:7791-20-0

RTECS #:QR6480000

Fraction by Wt: 100%

Ingred Name:SUPP DATA: AFTER PRLNGD EXPOS

, NICKEL IN SOME FORM IS
CARCIN. AN INCR INCIDENCE OF LUNGS & NASAL CANCER HAS BEEN (ING 3)
RTECS #:9999999ZZ

Inged Name:ING 2:REPORTED IN WORKERS IN NICKEL REFINING INDUSTRY.SKIN:
RPTD/PRLNGD EXPOS TO NICKEL & NICKEL CMPDS MAY CAUSE (ING 4)
RTECS #:9999999ZZ

Inged Name:ING 3: SENSIT DERM. EYE: RPTD/PRLNGD EXPOS TO IRRIT MAY
CAUSE CONJUNCT. INGEST: 100 MG/KG IN DRINKING H*2O OF (ING 5)
RTECS #:9999999ZZ

Inged Name:ING 4:RATS CAUSED LETHARGY, ATAXIA, IRREG BRTHG,COOL BODY
TE
MP, SALIVATION & DISCOLORED EXTREM. REPROD EFTS HAVE (ING 6)
RTECS #:9999999ZZ

Inged Name:ING 5: BEEN REPORTED IN ANIMAL STUDIES.
RTECS #:9999999ZZ

Inged Name:FIRST AID PROC: FOR AT LST 15 MIN, OCCAS LIFTING UPPER &
LOWER LIDS, UNTIL NO EVIDENCE OF CHEM REMAINS. (APPROX (ING 8)
RTECS #:9999999ZZ

Inged Name:ING 7: 15-20 MINS). GET MED ATTN IMMED. INGEST: TREAT SYMP
& SUPPORTIVELY. GET MED ATTN IMMED. ANTIDOTE: NO (ING 9)
RTECS #:9999999ZZ

Inged Name:ING 8: SPECIFIC ANTIDOTE. TREAT
SYMPTOMATICALLY AND
SUPPORTIVELY.
RTECS #:9999999ZZ

Inged Name:SPILL PROC:DUSTING & PLACE INTO SUITABLE CLEAN,DRY CNTNRS
FOR RECLAMATION/LATER DISP. RESIDUE SHOULD BE CLEANED (ING 11)
RTECS #:9999999ZZ

Inged Name:ING 10: UP USING A HIGH-EFFICIENCY PARTICULATE FILTER
VACUUM.
RTECS #:9999999ZZ

Inged Name:RESP PROT: OTHER POS PRESS MODE. NIOSH/MSHA APPRVD SUPP-AIR
RESP W/FULL FACEPIECE OPER IN PRESS-DEMAND/OTHER (ING 13)
RTECS #:9999999ZZ

Inged Name:ING 12: POS PRESS MODE I

N COMBINATION W/AN AUXILIARY SCBA

OPER IN PRESS-DEMAND/OTHER POS PRESS MODE. ESCAPE: (ING 14)

RTECS #:9999999ZZ

Ingred Name:ING 13: NIOSH/MSHA APPRVD AIR-PURIFYING FACEPIECE RESP

W/HIGH-EFFICIENCY PARTICULATE FILTER. ESCAPE-TYPE (ING 15)

RTECS #:9999999ZZ

Ingred Name:ING 14: NIOSH/MSHA APPRVD SCBA. FOR FIRE FIGHTING & OTHER

IDLH CNDTNS: ANY NIOSH/MSHA APPRVD SCBA THAT HAS FULL (ING 16)

RTECS #:9999999ZZ

Ingred Name:ING 15: FACEPIECE & IS OPER IN PRESS-DEMAND/OTHER POS-PRESS
MO

DE. ANY NIOSH/MSHA APPRVD SUPP-AIR RESP THAT HAS (ING 17)

RTECS #:9999999ZZ

Ingred Name:ING 16: FULL FACEPIECE & IS OPER IN PRESS-DEMAND/OTHER

POS-PRESS MODE IN COMBINATION W/AUXILIARY SCBA OPER IN (ING 18)

RTECS #:9999999ZZ

Ingred Name:ING 17: PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

RTECS #:9999999ZZ

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

LD50 LC50 Mixture:LD50: (ORAL,RAT) 175 MG/KG.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports o

f Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHAL: MAY BE IRRIT TO MUC MEMB
OF UPPER RESP TRACT.SKIN: CONT W/NICKEL CMPDS MAY CAUSE SENSIT
DERM, "NICKEL ITCH", CHARACT BY PRURITIS. ERYTHEMATOUS/FOLLICULAR
ERUPTIONS, FOLLOWED BY SUPERFICIAL ULCERS WHICH DISCHARGE & BECOME
ENCRUSTED/ECZEMATOUS MAY BE DELAYED 7 DAYS. IN CHRONIC STAGES,
(EFTS OF OVEREXP)

Explanation of Carcinogenicity:NICKEL SALT(NICKEL CHLORIDE): GROUP 2B
(IARC),

Effects of Overexposure:HLTH HAZ:PIGMENTED/UNPIGMENTED PLAQUES MAY BE
FORMED. EYE:MAY BE IRRIT. INGEST: INGEST MAY CAUSE GI IRRIT, VOMIT,
DIARR,& DEATH, WHICH MAY BE DELAYED FOR 24 HRS/MORE. OTHER SYS EFTS
FROM INGEST OF NICKEL CMPDS MAY INCL MYOCARDIAL WEAK, CAPILLARY
DMG IN BRAIN & ADRENALS, RENAL INJ,& CNS DEPRESS. CHRONIC: INHAL:
(SUPDAT)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

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First Aid:INHAL: REMOVE FROM EXPOS AREA TO FRESH AIR IMMED. IF BRTHG HAS STOPPED, PERFORM ARTF RESP. KEEP PERSON WARM & AT REST. TREAT SYMP & SUPPORTIVELY. GET MED ATTN IMMED. SKIN: REMOVE CONTAMD CLTHG & SHOES IMMED.WASH AFFECTED AREA W/SOAP/MILD DETERGENT & LRG AMTS OF H*2O UNTIL NO EVIDENCE OF CHEM REMAINS (APPROX 15-20 MIN). GET MED ATTN IMMED.EYE: WASH EYES IMMED W/LRG AMTS OF H*2O/NORM SALINE (ING 7)

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===== Fire Fighting Measures =====
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Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM. FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP.MOVE CNTNR FROM FIRE AREA IF YOU CAN DO IT W/OUT RISK.DO NOT SCATTER SPILLED MATL W/HIGH-PRESS H*2O (SUPDAT)

Unusual Fire/Explosion Hazard:NEGLIGIBLE FIRE HAZARD IN BULK FORM; HOWEVER, POSSIBLE FIRE AND EXPLOSION HAZARD IN DUST FORM WHEN EXPOSED TO HEAT OR FLAME.

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

Spill Release Procedures:H*2O SPILL: CALIFORNIA SAFE DRINKING H*2O & TOX ENFORCEMENT ACT OF 1986 (PROPOSITION 65) PROHIBITS CONTAM ANY KNOWN SOURCE OF DRINKING H*2O W/SUBSTANCES KNOWN TO CAUSE CANCER &/OR REPROD TOX. OCCUP SP ILL:FOR LRG SPILLS, SWEEP UP W/MIN OF (ING 10)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:SPECIFIC RESP SELECTED MUST BE BASED ON CONTAM LEVS FOUND IN WORK PLACE,MUST NOT EXCEED WORKING LIMITS OF RESP & BE JOINTLY APPRVD BY NIOSH/MSHA.AT ANY DETECTABLE CONC: NIOSH/MSHA APPRVD SCBA W/FULL FACEPIECE OPER IN PRESS-DEMAND/ (ING 12)

Ventilation:PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE

VENTILATION TO

MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:EMPLOYEE MUST WEAR APPROP PROT (IMPERVIOUS)
CLTHG & EQUIP TO PVNT RPTD/PRLNGD SKIN CONT W/SUBSTANCE. EYE WASH
FOUNTAIN.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

FIRE FIGHT PROC: STREAMS. DIKE FIRE-CNTRL H*2O FOR LATER DISP. USE
AGENT SUITABLE FOR TYPE SURROUNDING FIRE. AVOID BRTHG H

AZ

VAPS/DUSTS, KEEP UPWIND. EFTS OF OVEREXP: NICKEL CHLORIDE MAY CAUSE
HYPERPL ASIA OF BRONCHIOLAR & BRONCH EPITHILIUMW/PERIBRONCHIAL
LYMPHOCYTIC INFILTRATION. IN HUMANS IT IS PROBABLE THAT (ING 2)

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

Boiling Pt:B.P. Text:SUBLIMES

Melt/Freeze Pt:M.P/F.P Text:SUBLIMES

Spec Gravity:3.6

pH:ACIDIC

Solubility in Water:SOLUBLE

Appearance and Odor:GREEN DELIQUESCENT CRYSTALS OR MONOCLINIC
CRYSTALLINE POWDER.

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

Stability Indicator/Materials to Avoid:YES

POTASSIUM: FORMS SHOCK-SENSITIVE MIXTURE.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY
INCLUDE HAZARDOUS NICKEL CARBONYL.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE,
AND LOCAL REGULATIONS .

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d with this information by the compiling agencies):

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