

MATERIAL SAFETY
DATA SHEET

M&T* CHEMICALS INC.
PO BOX 1104
RAHWAY, NJ 07065

EMERGENCY TELEPHONE
NUMBERS
0130 AM - 4130 PM
(201) 499-2403
AFTER HOURS
(201) 499-2445

NAME USED ON LABEL: M&T* NICKEL ANODES
CHEMICAL NAME (IF SINGLE SUBSTANCE): NICKEL
CHEMICAL FAMILY: NICKEL METAL
FORMULA: NI

INGREDIENTS

IDENTITY
NICKEL METAL

CAS NO.

7440-02-0

3

100

TLV

0.1 MG/M3 AS NI

PHYSICAL DATA

BOILING POINT: 2900 C
SPECIFIC GRAVITY: 8.908

VAPOR DENSITY: N/A

% VOLATILES: NONE

MOLECULAR WEIGHT: 58.71

APPEARANCE AND ODOR: SILVER METAL BARS ODORLESS.

FREEZING POINT: 1455 C

VAPOR PRESSURE @ 20 C: N/A

SOLUBILITY IN WATER: INSOLUBLE

EVAPORATION RATE: N/A

OTHER: N/A

FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD)
N/A

AUTOIGNITION TEMPERATURE
N/A

FLAMMABLE LTS.
LEL: UEL:

EXTINGUISHING MEDIA: WATER SPRAY, FOAM, CARBON DIOXIDE, DRY CHEMICAL.

SPECIAL FIRE FIGHTING PROCEDURES: IN THE PRESENCE OF SULFUR OR SULFATES, MAY REACT WITH CO2 TO FORM NICKEL CARBONYL.

UNUSUAL FIRE AND EXPLOSION HAZARDS: METALLIC NICKEL CAN REACT WITH ACIDS TO LIBERATE HYDROGEN WHICH MAY CREATE AN EXPLOSION HAZARD.

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ENVIRONMENTAL INFORMATION

SPILL RESPONSE: PICK UP MATERIAL AND PLACE IN A SUITABLE CONTAINER.

RECOMMENDED DISPOSAL: NICKEL CONTAINING WASTE IS NORMALLY COLLECTED TO RECOVER NICKEL VALUES. SELL MATERIAL AS SCRAP. FOLLOW ALL CHEMICAL POLLUTION CONTROL REGULATIONS.

EPA HAZ. WASTE DESIGNATION (FOR VIRGIN PRODUCT): NONE
OTHER:

HEALTH HAZARD DATA

EYE CONTACT: MAY CAUSE IRRITATION.

SKIN CONTACT: MAY PRODUCE A DERMATITIS KNOWN AS "NICKEL ITCH". SKIN SENSITIZATION IS THE MOST COMMONLY SEEN TOXIC REACTION TO NICKEL AND NICKEL COMPOUNDS.

INHALATION: INHALATION IS IRRITATING TO THE UPPER RESPIRATORY TRACT.

CHRONIC TOXICITY: IARC INDICATED NICKEL REFINING AND CERTAIN NICKEL COMPOUNDS WERE CANCER-CAUSING BUT COULD NOT STATE WITH CERTAINTY WHICH FORMS OF NICKEL MAY BE CARCINOGENIC. NTP LISTS NICKEL POWDER, NICKEL SUBSULFIDE, NICKEL OXIDE, NICKEL CARBONATE, NICKEL CARBONYL, AND NICKELCENE AS SUSPECT CARCINOGENS. (SEE MISC.)

SUGGESTED FIRST AID:

EYES: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH FLOWING WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SKIN: FLUSH WITH FLOWING WATER FOR 15 MINUTES, THEN WASH AREA WITH MILD SOAP AND WATER. IF IRRITATION DEVELOPS SEEK MEDICAL ATTENTION.
INHALATION: OF NICKEL DUST OR POWDER, MOVE EXPOSED INDIVIDUAL TO FRESH AIR.

INGESTION: NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.

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REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: (SEE MISC.)
INCOMPATIBILITY (MATERIALS TO AVOID): N/A
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SPECIAL PROTECTION INFORMATION

VENTILATION: LOCAL EXHAUST IS RECOMMENDED.
MECHANICAL (GENERAL) IS REQUIRED.
RESPIRATORY PROTECTION: USE NIOSH APPROVED DUST AND MIST RESPIRATOR.

EYE AND FACE PROTECTION: CHEMICAL WORKERS GOGGLES. DO NOT WEAR
CONTACT LENSES.
OTHER CLOTHING AND EQUIPMENT: RUBBER, NEOPRENE OR NITRILE GLOVES,
AN EYEWASH AND EMERGENCY SHOWER SHOULD BE READILY AVAILABLE. REMOVE
CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.

SPECIAL PRECAUTIONS

PRECAUTIONARY LABEL INFORMATION: POSSIBLE CANCER HAZARD. MAY CAUSE
ALLERGIC REACTION. DO NOT BREATHE DUST, MIST, OR FUME GENERATED BY
HANDLING OR USE OF THIS PRODUCT. USE WITH ADEQUATE VENTILATION.
KEEP SKIN THOROUGHLY AFTER HANDLING.

STORAGE AND HANDLING: NORMAL WAREHOUSE STORAGE.

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TRANSPORTATION

DEPARTMENT OF TRANSPORTATION (DOT)
DOT PROPER SHIPPING NAME: NONE REQUIRED
DOT HAZARD CLASS: NONE REQUIRED
DOT LABEL: NONE REQUIRED
DOT ID #: NONE REQUIRED

MISCELLANEOUS

CHRONIC TOXICITY: ACGIH DOES NOT CONSIDER ALL FORMS OF NICKEL AS CARCINOGENIC AND ONLY LISTS NICKEL SULFIDE ROASTING AS CARCINOGENIC (A1A).

CONDITIONS TO AVOID: KEEP CONTAINER TIGHTLY CLOSED; MATERIAL TENDS TO PICK UP MOISTURE FROM THE AIR.

OTHER PRECAUTIONS: FOR INDUSTRIAL USE ONLY, READ TECHNICAL DATA BULLETIN ABOUT THIS PRODUCT PRIOR TO USE.

PREPARED BY SAFETY & ENVIRONMENTAL AFFAIRS

ISSUED: 10/08/86
SUPERSEDES: 11/06/85

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