

A M CASTLE METALS & CO -- NICKEL BASED ALLOY STEEL, NICKEL 2XX -- 9530-00N016994

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

Product ID:NICKEL BASED ALLOY STEEL, NICKEL 2XX

MSDS Date:03/01/1990

FSC:9530

NIIN:00N016994

MSDS Number: BKSBT

=== Responsible Party ===

Company Name:A M CASTLE METALS & CO

Address:3400 N WOLF ROAD

City:FRANKLIN PARK

State:IL

ZIP:60131

Country:US

Info Phone Num:708-455-7111

Emergency Phone Num:708-455-7111

CAGE:11045

=== Contractor Identification ===

Company Name:CASTLE A M AND CO

Address:3400 N WOLF RD

Box:City:FRANKLIN PARK

State:IL

ZIP:60131-1319

Country:US

Phone:847-455-7111

CAGE:11045

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

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: < 2%

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000

Fraction by Wt: < 5%

OSHA PEL:(C) 5 MG/M3 DUST

ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 95-99%

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:TITANIUM, METAL

CAS:7440-32-6

RTECS #:XR1700000
Fraction by Wt: < 5%
Other REC Limits:10 MG/M3 TDUST (MFR)

Ingred Name:TUNGSTEN
CAS:7440-33-7
RTECS #:YO7175000
Fraction by Wt: < 5%
OSHA PEL:5 MG/M3/ 10 STEL
ACGIH TLV:5 MG/M3/10 STEL;9192

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:STEEL PRODUCTS IN THE NATURAL STATE DO NOT PRESENT INHAL, INGEST, CONTACT HAZARD. OPERATIONS (BURNING, WELD, SAWING ETC) MAY RELEASE FUMES/DUST WHICH MAY CAUST HEALTH HAZARDS. ACUTE: EXP TO FUME/DUST MAY PRODUCE IRRIT OF EYES & RESP SYS. INHAL: HIGH CONC OF FRESHLY FORMED OXIDE FUMES OF FE, MN, CU MAY(EFTS OF OVEREXP)
Explanation of Carcinogenicity:CHROMIUM: IARC GRP 1, NTP GRP 1; NICKEL: IARAC GRP 1, NTP GRP 2.
Effects of Overexposure:HLTH HAZ: CAUSE METAL FUME FEVER CHARAC BY METALLIC TASTE IN MOUTH, DRYNESS & IRRIT OF THE THROAT & FLULIKE SYMP. CHRONIC: INHAL: HIGH CONC OF IRON OXIDE FUMES/DUST MAY LEAD TO A BENIGN PNEUMOCONIOSIS (SIDEROSIS). INHAL: OF HIGH CONC OF FERRIC OXIDE MAY ENHANCE RISK OF LUNG CANCER DEVELOPMENT IN WORKERS EXP(SUPP DATA)
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHAL: IF EXPOSED TO EXCESSIVE LEVELS OF METAL FUMES, REMOVE TO FRESH AIR, SEEK MEDICAL ATTENTION. EYE: FLUSH WITH WATER FOR AT LEAST 15 MIN. INGEST: CALL MD IMMEDIATELY .

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

Extinguishing Media:USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE .
Fire Fighting Procedures:STEEL PRODUCTS IN THE SOLID STATE PRESENT NO FIRE OR EXPLOSION HAZARD. WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:IN WELDING, PREC SHOULD BE TAKEN FOR AIRBORNE CONTAM WHICH MAY ORIGINATE FROM COMPONENTS OF THE WELDING ROD. ARC OR SPARK GENERATED WHEN (SUPP DATA)
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:NIOSH/MSHA APPROVED DUST AND FUME, RESPIRATOR SHOULD BE USED TO AVOID EXCESSIVE INHALATION OF PARTICULATES WHEN EXPOSURE EXCEEDS TLV'S.
Ventilation:LOCAL EXHAUST VENT SHOULD BE USED WHEN WELDING, BURNING, SAWING, BRAZING, GRINDING, OR MACHINING WHEN EXP EXCEEDS TLV'S.
Protective Gloves:NONE SPECIFIED BY MANUFACTURER.
Eye Protection:CHEMICAL WORKERS GOGGLES .
Other Protective Equipment:OTHER PROTECTIVE EQUIPMENT SHOULD BE UTILIZED AS REQUIRED BY THE WELDING STANDARDS.
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
EFTS OF OVEREXP: TO PULM CARCINOGENS. EXP TO HIGH CONC OF DUST/FUMES OF CR OR NI CAN CAUSE SENS DERMATITIS, INFLAM &/OR ULCERATION OF UPPER RESP TRACT & POSSIBLE CANCER OF NASAL PASSAGES & LUNGS. HNDL G/STOR
PREC: WELDING OR BURNING COULD BE A SOURCE OF IGNITION FOR COMBUSTIBLE AND FLAMMABLE MATERIALS.

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

HCC:N1
Melt/Freeze Pt:M.P/F.P Text:>2300F
Spec Gravity: 7
Appearance and Odor:GRAY-BLACK, ODORLESS SOLID.

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

Stability Indicator/Materials to Avoid:YES
REACTS WITH STRONG ACIDS TO PRODUCE HYDROGEN GAS.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:METALIC DUST OR FUMES MAY BE PRODUCED DURING WELDING, BURNING, GRINDING AND POSSIBLY MACHINING.

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

Waste Disposal Methods:ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS.

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