

NICKEL BASED ALLOY STEEL, INCONEL ALLOY 6XX

MSDS Number

BLTHP

National Stock Number

3439-00N021349

Product Name

NICKEL BASED ALLOY STEEL, INCONEL ALLOY 6XX

Manufacturer

A M CASTLE AND CO

Product Identification

Product ID:NICKEL BASED ALLOY STEEL, INCONEL ALLOY 6XX

MSDS Date:03/01/1990

FSC:3439

NIIN:00N021349

MSDS Number: BLTHP

Responsible Party

A M CASTLE & CO

3400 N WOLF RD

FRANKLIN PARK , IL 60131

US

Emergency Phone: 708-455-7111

Info Phone: 708-455-7111

Cage: 11045

Contractor

CASTLE A M AND CO

FRANKLIN PARK, IL 60131-1319

US

847-455-7111

Cage: 11045

Ingredients

10MG/M3 DUST; 5MG/M3 FUME.

CAS: 7429-90-5

RTECS: BD0330000

Fraction By Weight:

OSHA PEL15 MG/M3 DUST

ACGIH TLV: SEE INGREDIENT NAME

CHROMIUM

CAS: 7440-47-3

RTECS: GB4200000

Fraction By Weight: 15-48%

OSHA PEL1 MG/M3

ACGIH TLV: 0.5 MG/M3

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

COBALT

CAS: 7440-48-4

RTECS: GF8750000

Fraction By Weight: 0-13%

OSHA PEL0.1 MG/M3;AS CO

ACGIH TLV: 0.05 MG/M3;DUST 9293

IRON

CAS: 7439-89-6

RTECS: NO4565500

Fraction By Weight: 1-40%

OSHA PEL10 PPM

ACGIH TLV: 5 PPM

5 MG/M3 DUST; 1 MG/M3 FUME.

CAS: 7439-96-5

RTECS: OO9275000

Fraction By Weight:

OSHA PEL(C) 5 MG/M3 DUST

ACGIH TLV: 5 MG/M3 DUST 9293

MOLYBDENUM

CAS: 7439-98-7

RTECS: QA4680000

Fraction By Weight: 2-10%

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3; 9293

NICKEL

CAS: 7440-02-0

RTECS: QR5950000

Fraction By Weight: 39-80%

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3

NIOBIUM

CAS: 7440-03-1

Fraction By Weight:

OSHA PEL5 PPM (MFR)
ACGIH TLV: 5 PPM (MFR)

TANTALUM
CAS: 7440-25-7
RTECS: WW5505000
Fraction By Weight:
OSHA PEL5 MG/M3
ACGIH TLV: 5 MG/M3

TITANIUM
CAS: 7440-32-6
RTECS: XR1700000
Fraction By Weight:
OSHA PEL10 PPM TDUST
ACGIH TLV: 10 PPM TDUST

TUNGSTEN
CAS: 7440-33-7
RTECS: YO7175000
Fraction By Weight:
OSHA PEL5 MG/M3; 10 PPM STEL
ACGIH TLV: 5 MG/M3; 10 PPM STEL

YITTRIUM
CAS: 7440-65-5
RTECS: ZG2980000
Fraction By Weight:
OSHA PEL1 PPM
ACGIH TLV: 1 PPM

Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:SHORT TERM EXPOS TO FUMES/DUST MAY PRDCE IRRIT OF EYES/RESP SYS. INHAL OF HIGH CONC OF FRESHLY FORMED OXIDE FUMES OF IRON, MANGANESE & COPPER MAY CAUSE METAL FUME FEVER CHARACTERIZED BY METALLIC TASTE IN MOUTH, DRYNESS & IRRIT OF THROAT & INFLUENZALIKE SYMP. CHRONIC INHAL OF HIGH CONC OF IRON OXIDE(SEE EFTS OF OVEREXP)
Explanation of Carcinogenicity:NICKEL: IARC (2B), NTP (2).
Effects of Overexposure:HLTH HAZ:FUMES/DUST MAY LEAD TO BENIGN PNEUM(SIDEROSIS). INHAL OF HIGH CONC OF FERRIC OXIDE MAY POSS ENHANCE RISK OF LUNG CANCER DEVELOPMENT IN WORK EXPOS TO PULM CARCIN. EXPOS TO HIGH OCNC OF DUST/FU MES CAN CAUSE SENSIT DERM, INFLAMMATION&/OR ULCERATION OF UPPER RESP TRACT & POSS CANCER OF NASAL PASSAGES & LUNGS.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid

First Aid:INHAL: REMOVE TO FRESH AIR, SEEK MED AID IMMED. EYES: FLUSH WITH WATER FOR AT LEAST 15 MIN. SKIN: FLUSH WITH COPIOUS AMOUNTS OF WATER. CALL MD . INGEST: CALL MD IMMED .

Fire Fighting

Extinguishing Media:NOT APPLICABLE. MEDIA SUITABLE FOR SURROUNDING FIRE .

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .

Accidental Release

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:IN WELD, PREC SHOULD BE TAKEN FOR AIRBORNE CONTAM WHICH MAY ORIGINATE FROM COMPONENTS OF WELD ROD. ARC/SPARK GENERATED WHEN WELD/BURN COULD BE(SUPDAT)
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

Exposure Controls

Respiratory Protection:NIOSH/MSHA APPROVED DUST AND FUME, RESPIRATOR SHOULD BE USED TO AVOID EXCESSIVE INHALATION OF PARTICULATES WHEN EXPOSURE TO EXCEEDS TLV'S.
Ventilation:LOC EXHAUST VENT SHOULD BE UTILIZED WHEN WELD/BURN/SAW/BRAZ, GRIND OR MACHINING WHEN EXPOSURE EXCEEDS TLV'S.
Protective Gloves:IMPERVIOUS GLOVES .
Eye Protection:CHEMICAL WORKERS GOGGLES .
Other Protective Equipment:OTHER PROTECTIVE EQUIPMENT.
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
HNDLG/STOR PREC: SOURCE OF IGNITION FOR COMBUSTIBLE AND FLAMMABLE MATERIALS.

Chemical Properties

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

Stability

Stability Indicator/Materials to Avoid:YES
REACTS WITH STRONG ACIDS TO PRODUCE HYDROGEN GAS.
Hazardous Decomposition Products:METALLIC DUST OR FUMES MAY BE PRODUCED WELDING, BURNING, GRINDING & POSSIBLE MACHINING. REFER TO ANSI Z49.1.

Disposal

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

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