

BRONZE

MSDS Number

BBPDJ

National Stock Number

3439-00F003946

Product Name

BRONZE

Manufacturer

A M CASTLE AND CO

Product Identification

Product ID:BRONZE

MSDS Date:03/01/1990

FSC:3439

NIIN:00F003946

MSDS Number: BBPDJ

Responsible Party

A M CASTLE & CO

3400 N WOLF RD

FRANKLIN PARK , IL 60131

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

COBALT (SARA III)

CAS: 7440-48-4

RTECS: GF8750000

Fraction By Weight:

OSHA PEL0.1 MG/M3;AS CO

ACGIH TLV: 0.05 MG/M3;DUST 9293

TIN

CAS: 7440-31-5

RTECS: XP7320000

Fraction By Weight:

OSHA PEL2 MG/M3

ACGIH TLV: 2 MG/M3; 9192

ZINC OXIDE

CAS: 1314-13-2

RTECS: ZH4810000

Fraction By Weight:

OSHA PEL15MG/M3 TDUST/5 FUME

ACGIH TLV: 10MG/M3 TDUST; 9293

LEAD (SARA III)

CAS: 7439-92-1

RTECS: OF7525000

Fraction By Weight:

OSHA PEL0.05 MG/M3;1910.1025

ACGIH TLV: 0.15 MG/M3;DUST 9192

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

COPPER (SARA III)

CAS: 7440-50-8

RTECS: GL5325000

Fraction By Weight: 70-99%

OSHA PEL0.1MG/M3 FUME/1 DUST

ACGIH TLV: 0.2MG/M3 FUME; 9192

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

NICKEL (SARA III)

CAS: 7440-02-0

RTECS: QR5950000

Fraction By Weight: 14%

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3; 9192

ALUMINUM (SARA III)

CAS: 7429-90-5

RTECS: BD0330000

Fraction By Weight: 14%

OSHA PEL15MG/M3 DUST/5 FUME

ACGIH TLV: 10MG/M3 DUST; 9192

IRON

CAS: 7439-89-6

RTECS: NO4565500

Fraction By Weight:

OSHA PEL10 MG/CUM

ACGIH TLV: 5 MG/CUM

SILICON

CAS: 7440-21-3

RTECS: VW0400000

Fraction By Weight:

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST; 9293

MANGANESE (SARA III)

CAS: 7439-96-5

RTECS: OO9275000

Fraction By Weight:

OSHA PEL(C) 5 MG/M3 DUST

ACGIH TLV: 5 MG/M3 DUST 9293

Hazards

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

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

Health Hazards Acute and Chronic:INHALATION: RESPIRATORY SYSTEM, METAL FUME, METALLIC TASTE IN THE MOUTH, DRYNESS OF THE THROAT & INFLUENZA LIKE SYMPTOMS, LEAD-INDUCED SYSTEMIC TOXICITY, ABDOMINAL CRAMPS, ANEMIA, MUSCLE WEAKNESS, HEA DACHE, BEHAVIORAL CHANGES, KIDNEY DAMAGE, CNS DAMAGE & REPRODUCTIVE EFFECTS.

Explanation of Carcinogenicity:NICKEL IS LISTED BY NTP. LEAD IS

SUSPECTED HUMAN CARCINOGEN BY IARC, NTP & ACGIH.

Effects of Overexposure:INHALATION: SENSITIZATION DERMATITIS, INFLAMMATION & ULCERATION OF UPPER RESPIRATORY TRACT & POSSIBLY CANCER OF NASAL PASSAGES & LUNGS.

First Aid

First Aid:INHALATION: REMOVE TO FRESH AIR. EYES: FLUSH W/WATER FOR AT LEAST 15 MINS. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Fire Fighting

Fire Fighting Procedures:PRODUCTS IN THE SOLID STATE PRESENT NO FIRE OR EXPLOSION.

Unusual Fire/Explosion Hazard:DISPERSION IN AIR & STRONG IGNITION SOURCES MAY RESULT IN AN EXPLOSION. COMBUSTIBLE & FLAMMABLE MATERIALS.

Handling

Handling and Storage Precautions:IN WELDING, PRECAUTIONS SHOULD BE TAKEN FOR AIRBORNE CONTAMINANTS WHICH MAY ORIGINATE FROM COMPONENTS OF THE WELDING ROD.

Other Precautions:ARC OR SPARK GENERATED WHEN WELDING OR BURNING COULD BE A SOURCE OF IGNITION FOR COMBUSTIBLE & FLAMMABLE MATERIALS.

Exposure Controls

Respiratory Protection:NIOSH/MSHA APPROVED DUST & FUME, RESPIRATOR SHOULDN'T BE USED TO AVOID EXCESSIVE INHALATION OF PARTICULATES WHEN EXPOSURE EXCEED TLV.

Ventilation:LOCAL EXHAUST VENTILATION SHOULD BE UTILIZED WHEN WELDING, BURNING, SAWING, BRAZING, GRINDING OR MACHINING.

Eye Protection:SAFETY GLASSES OR GOGGLES
Other Protective Equipment:OTHER PROTECTIVE EQUIPMENT SHOULD BE
UTILIZED AS REQUIRED.
Supplemental Safety and Health

Chemical Properties

Melt/Freeze Pt:M.P/F.P Text:>1700F
Spec Gravity:>7
Appearance and Odor:RED-GOLD METALLIC, ODORLESS

Stability

Stability Indicator/Materials to Avoid:YES
STRONG ACIDS, BASES OR OXIDIZING AGENTS, MERCURY, AMMONIA, ACETYLENE
Stability Condition to Avoid:ARC OR SPARK, SOURCE OF IGNITION
Hazardous Decomposition Products:TOXIC GASES, AEROSOLS, VAPORS MAY BE
RELEASED IN A FIRE.

Disposal

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, &
FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.