

CARBON STEEL - HR & CR LEADED CARBON

MSDS Number

CJWXT

National Stock Number

9515-01-069-7740

Product Name

CARBON STEEL - HR & CR LEADED CARBON

Manufacturer

A M CASTLE AND CO

Product Identification

Product ID: CARBON STEEL - HR & CR LEADED CARBON

MSDS Date: 10/01/1997

FSC: 9515

NIIN: 01-069-7740

Status Code: A

MSDS Number: CJWXT

Responsible Party

A M CASTLE & CO

3400 N WOLF ROAD

FRANKLIN PARK , IL 60131

US

Emergency Phone: 847-455-7111

Info Phone: 847-455-7111

Cage: 11045

Contractor

CASTLE A M AND CO

FRANKLIN PARK, IL 60131-1319

US

847-455-7111

Cage: 11045

Ingredients

IRON; (IRON (FE)) BASE METAL

CAS: 7439-89-6

RTECS: NO4565500

OSHA PEL10 MG/M3

ACGIH TLV: 5 MG/M3

ALLOYING ELEMENTS (INCLUDING INGREDIENTS 3-11)

MANGANESE (MN)

CAS: 7439-96-5

RTECS: OO9275000

OSHA PELC5 MG/M3

ACGIH TLV: 5 MG/M3

CARBON (C)

CAS: 7440-44-0

RTECS: FF5250000

ACGIH TLV: 3.5 AS CARBON BLACK

ALUMINUM (AL)

CAS: 7429-90-5

RTECS: BD0330000

OSHA PEL15 MG/M3

ACGIH TLV: 10 MG/M3

PHOSPHORUS (P)

CAS: 7723-14-0

RTECS: TH3495000

OSHA PEL0.1 MG/M3

ACGIH TLV: 0.1 MG/M3;0.02 PPM

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

SULFUR (S)

CAS: 7704-34-9

RTECS: WS4250000

OSHA PEL13 MG/M3

ACGIH TLV: 5 MG/M3

SILICON (SI)

CAS: 7440-21-3

RTECS: VW0400000

OSHA PEL15 MG/M3

ACGIH TLV: 10 MG/M3

VANADIUM (V)

CAS: 7440-62-2

RTECS: YW1355000

OSHA PEL0.5 MG/M3

ACGIH TLV: 0.05 MG/M3

NIOBIUM; (COLUMBIUM (CB))

CAS: 7440-03-1

RTECS: QT9900000

BISMUTH (BI)

CAS: 7440-69-9

RTECS: EB2600000

LEAD; (LEAD CARBON I.E. 10L42)

CAS: 7439-92-1

RTECS: OF7525000

OSHA PEL0.5 MG/M3

ACGIH TLV: 0.15 MG/M3

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

Hazards

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:NOTE: PRODS UNDER NORMAL CNDTNS DO NOT REPRESENT INHAL, INGEST/CNTCT HLTH HAZ. NOTE: STEEL PRODS IN NATURAL STATE DO NOT PRESENT INHAL. INGEST/CONTACT HAZ. HOWEVER, OPERATIONS SUCH AS BURNING, WELDING , SAWING, BRAZING & GRINDING MAY RELEASE FUMES &/DUSTS WHICH MAY PRESENT HLTH HAZ IF TLV'S ARE EXCEEDED. ACUTE: SHORT TERM EXPOS TO FUMES/DUST MAY PRODUCE IRRIT OF EYES & RESP SYS. INHAL OF HIGH CONCS OF FRESHLY FORMED OXIDE FUMES OF IRON, MANGANESE & LEAD MAY CAUSE METAL FUME FEVER CHARACTERIZED BY METALLIC TASTE IN MOUTH & IRRIT OF THROAT & INFLUENZA-LIKE SYMPTOMS. (EFTS OF OVEREXP)
Explanation of Carcinogenicity:LEAD: IARC MONOGRAPHS, SUPPLEMENT: VOL 7, PG 23, 1987: GROUP 28.

Effects of Overexposure:HLTH HAZ: CHRONIC: LEAD APPEARS ON THE NAVY LISTING OF OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS. SEEK CONSULTATION FROM APPROPRIATE HEALTH PROFESSIONALS CONCERNING LATEST HAZARD LIST INFORMATION & SAFE HANDLING & EXPOSURE INFORMATION . CHRONIC INHALATION OF HIGH CONCENTRATIONS OF IRON OXIDE FUMES/DUST MAY LEAD TO BENIGN PNEUMOCONIOSIS (SIDEROSIS). INHAL OF HIGH CONCENTRATIONS OF FERRIC OXIDE MAY POSSIBLY ENHANCE RISK OF LUNG CANCER DEVELOPMENT IN WORKERS EXPOSED TO PULMONARY CARCINOGENS. INHAL/INGEST OF LEAD PARTICLES MAY RESULT IN LEAD-INDUCED SYSTEMIC TOXICITY.

First Aid

First Aid:INHALATION: IF EXPOSED TO EXCESSIVE LEVELS OF METAL FUMES, REMOVE TO FRESH AIR, SEEK MEDICAL AID IMMEDIATELY. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. INGESTION: CALL MD IMMEDIATELY . SKIN: FLUSH WITH COPIOUS AMOUNTS OF WATER. CALL MD .

Fire Fighting

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE .
Fire Fighting Procedures:USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT . STEEL PRODUCTS IN THE SOLID STATE PRESENT NO FIRE OR EXPLOSION HAZARD.
Unusual Fire/Explosion Hazard:NOT APPLICABLE.

Accidental Release

Spill Release Procedures:NOT APPLICABLE.

Handling

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

COULD BE A SOURCE OF IGNITION FOR COMBUSTIBLE AND FLAMMABLE MATERIALS.

Exposure Controls

Respiratory Protection: NIOSH APPROVED DUST AND FUME, RESPIRATOR SHOULD BE USED TO AVOID EXCESSIVE INHALATION OF PARTICULATES WHEN EXPOSURE EXCEEDS TLV'S.

Ventilation: LOCAL EXHAUST VENTILATION SHOULD BE UTILIZED WHEN WELDING, BURNING, SAWING, BRAZING, GRINDING OR MACHINING WHEN EXPOSURE EXCEEDS TLV'S.

Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES .

Other Protective Equipment: ANSI APPROVED EYE WASH AND DELUGE SHOWER .

Supplemental Safety and Health

EFFECTS OF OVEREXPOSURE: SYMPTOMS OF LEAD POISONING INCLUDE ABDOMINAL, CRAMPS, ANEMIA, MUSCLE WEAKNESS & HEADACHE. PROLONGED EXPOSURE CAN CAUSE BEHAVIORAL CHANGES, KIDNEY DAMAGE, CNS DAMAGE & REPRODUCTIVE EFFECTS.

Chemical Properties

Melt/Freeze Pt: >1371.1C, #####F

Spec Gravity: 7

Appearance and Odor: SOLID GRAY-BLACK, ODORLESS.

Stability

Stability Indicator/Materials to Avoid: YES

REACTS WITH STRONG ACIDS TO PRODUCE HYDROGEN GAS.

Stability Condition to Avoid: NOT APPLICABLE.

Hazardous Decomposition Products: METALLIC DUST OR FUMES MAY BE PRODUCED DURING WELDING, BURNING, GRINDING AND POSSIBLY MACHINING. REFER TO ANSI Z49.1

Disposal

Waste Disposal Methods: ACCORDING TO LOCAL, STATE AND 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.