

## **CARBON STEEL HR & CR LEADED CARBON**

### **MSDS Number**

BBQFW

### **National Stock Number**

3439-00F004422

### **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: 03/01/1990

FSC: 3439

NIIN: 00F004422

MSDS Number: BBQFW

### **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**

IRON

CAS: 7439-89-6

RTECS: NO4565500

Fraction By Weight: 97-99%

OSHA PEL10 MG/CUM

MANGANESE, MN COMPOUNDS

CAS: 7439-96-5

RTECS: OO9275000

Fraction By Weight:

OSHA PEL(C) 5 MG/M3 DUST

ACGIH TLV: 5 MG/M3 DUST 9293

CARBON, GRAPHITE

CAS: 7440-44-0

RTECS: FF5250100

Fraction By Weight:

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 2 MG/M3 TDUST; 9293

ALUMINUM (POWDER)

CAS: 7429-90-5

RTECS: BD0330000

Fraction By Weight:

OSHA PEL0.1 MG/CUM

ACGIH TLV: 10 MG/CUM (DUST)

PHOSPHORUS (YELLOW & WHITE)

CAS: 7723-14-0

RTECS: TH3500000

Fraction By Weight:

OSHA PEL0.1 MG/CUM

ACGIH TLV: 0.1 MG/CUM

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

SULFUR

CAS: 7704-34-9

RTECS: WS4250000

Fraction By Weight:

OSHA PEL5 MG/CUM

SILICON

CAS: 7440-21-3

RTECS: VW0400000

Fraction By Weight:

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST; 9293

VANADIUM

CAS: 7440-62-2

RTECS: YW1355000

Fraction By Weight:

OSHA PELC,0.5 MG V205/M3 RD

ACGIH TLV: 0.05 MG V205/M3;9293

COLUMBIUM, NIOBIUM

CAS: 7440-03-1

Fraction By Weight:

BISMUTH

CAS: 7440-69-9

RTECS: EB2600000

Fraction By Weight:

ACGIH TLV: 10 MG/CUM

LEAD, INORGANIC LEAD (SUSPECTED HUMAN CARCINOGEN BY IARC,

CAS: 7439-92-1

RTECS: OF7525000

Fraction By Weight:

OSHA PEL0.05 MG/CUM

ACGIH TLV: 0.15 MG/CUM

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

## Hazards

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

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

Health Hazards Acute and Chronic:EYES: IRRITATION. INHALATION: RESPIRATORY SYSTEM/THROAT IRRITATION/METAL FUME FEVER/METALLIC TASTE IN MOUTH/INFLUENZA-LIKE SYMPTOMS/BENIGN PNEUMOCONIOSIS (SIDEROSIS)/LEAD POISONING SYMPTOMS SUCH AS AB DOMINAL CRAMPS/ANEMIA/MUSCLE WEAKNESS/HEADACHE/BEHAVIORAL CHANGE/KIDNEY DAMAGE/CNS DAMAGE/REPRODUCTIVE EFFECTS.

Explanation of Carcinogenicity:LEAD IS A SUSPECTED HUMAN CARCINOGEN BY ACGIH.

Effects of Overexposure:INHALATION/INGESTION: LEAD-INDUCED SYSTEMIC TOXICITY. INHALATION: OXIDE FUMES OF IRON, MANGANESE, & LEAD MAY CAUSE METAL FUME FEVER, METALLIC TASTE IN MOUTH, THROAT IRRITATION, INFLUENZA-LIKE SYMPTOMS . IRON OXIDE FUMES/DUST MAY LEAD TO BENIGN PNEUMOCONIOSIS (SIDEROSIS). FERRIC OXIDE MAY ENHANCE RISK OF LUNG CANCER.

## 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:STEEL PRODUCTS IN THE SOLID STATE PRESENT NO FIRE OR EXPLOSION HAZARD.

## Handling

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

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

## Exposure Controls

Respiratory Protection:USE NIOSH/MSHA APPROVED DUST & FUME RESPIRATOR WHEN >TLV.

Ventilation:LOCAL EXHAUST WHEN WELDING/BURNING/SAWING/BRAZING/GRINDING

OR MACHINING TO KEEP Protective Gloves:AS REQUIRED  
Eye Protection:SAFETY GLASSES OR GOGGLES  
Other Protective Equipment:AS REQUIRED  
Supplemental Safety and Health

## **Chemical Properties**

Melt/Freeze Pt:M.P/F.P Text:>2500F  
Spec Gravity: 7  
Appearance and Odor:GRAY-BLACK SOLID, ODORLESS

## **Stability**

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS  
Hazardous Decomposition Products:HYDROGEN GAS, METALLIC DUST OR FUMES  
MAY BE PRODUCED DURING WELDING, BURNING, GRINDING, & POSSIBLE  
MACHINING.

## **Disposal**

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

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