



LINE PIPE & COUPLINGS CARBON STEEL, 4C020

MSDS Number

BLFSY

National Stock Number

3439-00N018565

Product Name

LINE PIPE & COUPLINGS CARBON STEEL, 4C020

Manufacturer

UNITED STATES STEEL CORP

Product Identification

Product ID:LINE PIPE & COUPLINGS CARBON STEEL, 4C020

MSDS Date:12/01/1987

FSC:3439

NIIN:00N018565

MSDS Number: BLFSY

Responsible Party

UNITED STATES STEEL CORP

PITTSBURGH , PA 15230

US

Emergency Phone: 412-433-6840

Info Phone: 412-433-5811

Cage: HO954

Contractor

UNITED STATES STEEL CORP

206

PITTSBURGH, PA 15230

US

412-433-5811

Cage: HO954

Ingredients

PHOSPHOROUS (YELLOW) (SARA III)

CAS: 7723-14-0

RTECS: TH3500000

Fraction By Weight: 0.03%

OSHA PEL0.1 MG/M3

ACGIH TLV: 0.1 MG/M3; 9192

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

SILICON

CAS: 7440-21-3

RTECS: VW0400000

Fraction By Weight: 0.3% MAX



OSHA PEL15 MG/M3 TDUST
ACGIH TLV: 10 MG/M3 TDUST; 9293

SULFUR. PEL AND TLV AS SO*2.
CAS: 7704-34-9
RTECS: WS4250000
Fraction By Weight: 0.03%
OSHA PEL2 PPM; 5 PPM STEL
ACGIH TLV: 2 PPM; 5 PPM STEL

SYNERGISTICALLY W/INHAL OF OXIDES, FUMES OR DUST
RTECS: 9999999ZZ

AT LEAST 15 MINS TO REMOVE PARTICLES. SEEK
RTECS: 9999999ZZ

EXCESSIVE DUST OR FUME EXPOSURE.
RTECS: 9999999ZZ

MANGANESE (SARA III)
CAS: 7439-96-5
RTECS: OO9275000
Fraction By Weight: 1.35%
OSHA PEL(C) 5 MG/M3 DUST
ACGIH TLV: 5 MG/M3 DUST 9293

IRON OXIDE
CAS: 1309-37-1
RTECS: NO7400000
Fraction By Weight: 98% MIN
OSHA PEL10 MG/M3 (FE)
ACGIH TLV: 5 MG/M3(FE),B2; 9293

ALUMINUM (SARA III)
CAS: 7429-90-5
RTECS: BD0330000
Fraction By Weight: 0.01%MIN
OSHA PEL15MG/M3 DUST/5 FUME
ACGIH TLV: 10MG/M3 DUST; 9192

GRAPHITE, SYNTHETIC



CAS: 7440-44-0

RTECS: FF5250100

Fraction By Weight: 0.29% MX

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 2 MG/M3 TDUST; 9293

Hazards

LD50 LC50 Mixture:SEE INGREDIENTS

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

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

Health Hazards Acute and Chronic:CHRONIC INHAL OF HIGH CONC OF IRON OXIDE FUMES/DUST MAY LEAD TO A BENIGN PNEUMOCONIOSIS (SIDEROSIS).

INHAL OF HIGH CONC OF FERRIC OXIDE MAY POSS ENHANCE THE RISK OF LUNG CANCER DEVELOPMENT IN WORKERS EXPOSED TO PULM CARCIN. THE INHAL OF HIGH CONC OF FRESHLY FORMED OXIDE FUMES/DUST OF MANGANESE, (SEE EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ:COPPER, LEAD &/OR ZINC IN THE RESP PARTICLE SIZE RANGE CAN CAUSE AN INFLUENZA-LIKE ILLNESS TERMED METAL FUME FEVER. TYPICAL SYMPS LAST 12-48 HRS & ARE CHARACT BY METALLIC TASTE IN MOUTH/DRYNE SS/IRRIT OF THE THROAT, FOLLOWED BY WEAKNESS/MUSCLE PAIN/FEVER/ CHILLS. CONTINUOUS EXPOS TO HIGH CONC OF (SEE SUPP DATA)

Medical Cond Aggravated by Exposure:INDIVIDUAL W/CHRONIC RESPIRATORY DISORDERS (I.E. ASTHMA, CHRONIC BRONCHITIS, EMPHYSEMA, ETC) MAY BE ADVERSELY AFFECTED BY ANY FUME OR AIRBORNE PARTICULATE MATTER EXPOSURE.

First Aid

First Aid:INHAL:FOR OVEREXPOS TO AIRBORNE FUMES/ PARTICULATES, REMOVE EXPOSED PERS TO FRESH AIR. IF BRTHG IS DFCLT/HAS STOPPED, ADMINISTER ARTF RESP/O2 AS INDICATED. SEEK MD PROMPTLY. TREAT METAL FUME FEVER BY BED REST/ADMINISTER A PAIN/FEVER REDUCING MEDICATION. SKIN:IF THERMAL BURN HAS OCCURRED, FLUSH AREA W/COLD WATER. SEEK MD. FOR MECH ABRASIONS, SEEK MD. EYE:FLUSH W/LGE AMTS OF WATER FOR(SEE INGRED 9)

Fire Fighting

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE CONDITIONS .

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

Unusual Fire/Explosion Hazard:NOT FLAMMABLE OR COMBUSTIBLE. STEEL PRODUCTS IN THE SOLID STATE PRESENT NO FIRE OR EXPLOSION HAZARD AND DO NOT CONTRIBUTE TO THE COMBUSTION OF OTHER MATERIALS.

Accidental Release

Spill Release Procedures:NOT APPLICABLE TO STEEL IN SOLID STATE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:OPERATIONS W/THE POTENTIAL FOR GENERATING HIGH CONCENTRATION OF AIRBORNE PARTICULATES SHOULD BE EVALUATED & CONTROLLED AS NECESSARY.

Other Precautions:AVOID BREATHING METAL FUMES &/OR DUST.

Exposure Controls

Respiratory Protection:NIOSH/MSHA APPROVED DUST/FUME RESPIRATORS SHOULD BE USED TO AVOID EXCESSIVE INHAL OF PARTICULATES. APPROPRIATE RESPIRATOR SELECTION DEPENDS ON THE MAGNITUDE OF EXPOSURE.

Ventilation:LOC EXHAUST VENT SHOULD BE PROVIDED WHEN WELDING, BURNING, SAWING, BRAZING, GRINDING, MACHINING TO PVNT (SEE INGRED 10)

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:ADDITIONAL PROTECTIVE EQUIPMENT &/OR CLOTHING MAY BE REQUIRED TO CONTROL EXPOSURES.



Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
MP:BASE METAL-2750F; METALLIC COATING-N/A. EFTS OF OVEREXP:MANGANESE
CAN CAUSE CNS DISORDERS & "MANGANESE PNEUMONIA". FIBROSIS OF LUNG
TISSUE FROM MANGANESE EXPOS HAS ALSO BEEN REPORTED FOR PRODS CONT
AINING MANGANESE ONLY. LONGTERM INHAL EXPOS TO HIGH CONC
(OVEREXPOS) TO PNEUMOCONIOTIC AGENTS MAY ACT (SEE INGRED 8)

Chemical Properties

HCC:N1
Melt/Freeze Pt:M.P/F.P Text:SUPP DATA
Spec Gravity:7.85
Solubility in Water:NOT SOLUBLE
Appearance and Odor:METALLIC GRAY SOLID; NO ODOR.

Stability

Stability Indicator/Materials to Avoid:YES
WILL REACT W/STRONG ACID TO LIBERATE HYDROGEN.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:AT TEMPERATURES ABOVE THE MELTING
POINT, MAY LIBERATE FUMES CONTAINING OXIDES OF IRON AND ALLOYING
ELEMENTS.

Disposal

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

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