

JESSOP STEEL CO -- TOOL STEELS -- 5180-00F007185

===== Product Identification =====

Product ID:TOOL STEELS
MSDS Date:11/11/1985
FSC:5180
NIIN:00F007185
MSDS Number: BBXKN
=== Responsible Party ===
Company Name:JESSOP STEEL CO
Address:500 GREEN STREET
City:WASHINGTON
State:PA
ZIP:15301
Info Phone Num:(412) 222-4000
Emergency Phone Num:(412) 222-4000
CAGE:74967
=== Contractor Identification ===
Company Name:JESSOP STEEL CO
Address:500 GREEN STREET
Box:City:WASHINGTON
State:PA
ZIP:15301
Phone:(412) 222-4000
CAGE:74967

===== Composition/Information on Ingredients =====

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:009275000
Fraction by Wt: 0-3%
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 0-3%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CARBON BLACK
CAS:1333-86-4
RTECS #:FF5800000
Fraction by Wt: 0-3%
Other REC Limits:3.5 MG/CUM (NIOSH)
OSHA PEL:3.5 MG/M3
ACGIH TLV:3.5 MG/M3; 9192

Ingred Name:IRON OXIDE
CAS:1309-37-1
RTECS #:NO7400000
Fraction by Wt: 50-98%
OSHA PEL:10 MG/M3 (FE)
ACGIH TLV:5 MG/M3 (FE), B2; 9293

Ingred Name:TUNGSTEN
CAS:7440-33-7
RTECS #:YO7175000
Fraction by Wt: 0-19%
OSHA PEL:5 MG/M3/ 10 STEL
ACGIH TLV:5 MG/M3/10 STEL; 9192

Ingred Name:COBALT (SARA III)
 CAS:7440-48-4
 RTECS #:GF8750000
 Fraction by Wt: 0-12%
 Other REC Limits:0.05 PPM
 OSHA PEL:0.1 MG/M3;AS CO
 ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:CHROMIUM (SARA III)
 CAS:7440-47-3
 RTECS #:GB4200000
 Fraction by Wt: 0-14%
 OSHA PEL:1 MG/M3
 ACGIH TLV:0.5 MG/M3; 9192
 EPA Rpt Qty:1 LB
 DOT Rpt Qty:1 LB

Ingred Name:MOLYBDENUM
 CAS:7439-98-7
 RTECS #:QA4680000
 Fraction by Wt: 0-9%
 OSHA PEL:15 MG/M3 TDUST
 ACGIH TLV:10 MG/M3; 9293

Ingred Name:NICKEL (SARA III)
 CAS:7440-02-0
 RTECS #:QR5950000
 Fraction by Wt: 0-5%
 Other REC Limits:1 MG/CUM
 OSHA PEL:1 MG/M3
 ACGIH TLV:1 MG/M3; 9192

Ingred Name:VANADIUM (SARA III)
 CAS:7440-62-2
 RTECS #:YW1355000
 Fraction by Wt: 0-5%
 OSHA PEL:C,0.5 MG V2O5/M3 RD
 ACGIH TLV:0.05 MG V2O5/M3;9293

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
 Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
 Health Hazards Acute and Chronic:INHALATION: METAL FUME FEVER,
 SIDEROSIS, BRONCHITIS, PNEUMONITIS, LACK OF COORDINATION,
 ASTHMA-LIKE DISEASE W/COUGH, DYSPNEA/PULMONARY EFFECTS. SKIN:
 DERMATITIS, SENSITIZATION, INFLAMMATION/ULCERATION OF UPPER
 RESPIRATORY TRACT.
 Explanation of Carcinogenicity:BOTH CHROMIUM/NICKEL HAVE BEEN
 ASSOCIATED W/UPPER RESPIRATORY CANCER.
 Effects of Overexposure:INHALATION: METAL FUME FEVER, SIDEROSIS,
 BRONCHITIS, PNEUMONITIS, LACK OF COORDINATION, ASTHMA-LIKE DISEASE
 W/COUGH & DYSPNEA, & PULMONARY EFFECTS. SKIN: DERMATITIS,
 INFLAMMATION, ULCERATION OF UPPER RESPIRATORY TRACT.
 Medical Cond Aggravated by Exposure:DERMATITIS/SENSITIZATION

===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR, ADMINISTER OXYGEN & SEEK
 PHYSICIAN'S ASSISTANCE.

===== Handling and Storage =====

Handling and Storage Precautions:CARBON (WATER HARDENING), COLD WORK

DIE, COLD/HOT WORK (AIR-HARDENING), MOLD, OIL HARDENING, SHOCK
RESISTING, SPECIAL PURPOSE, ARMOR PLATE.

Other Precautions:FOR WELDING/BURNING/GRINDING/CUTTING OPERATIONS/LOCAL
EXHAUST VENTILATION SHOULD BE PROVIDED. IF FUMES OR DUST CAN'T BE
CONTROLLED W/EXHAUST VENTILATION, RESPIRATOR SHOULD BE USED.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF FUMES OR DUST CAN'T BE CONTROLLED W/EXHAUST
VENTILATION, AN APPROPRIATE NIOSH-APPROVED RESPIRATOR SHOULD BE
USED.

Ventilation:LOCAL EXHAUST VENTILATION SHOULD BE PROVIDED.

Protective Gloves:AS NECESSARY

Eye Protection:SAFETY GLASSES, GOGGLES.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

Melt/Freeze Pt:M.P/F.P Text:2600-2800F

Spec Gravity:8

Appearance and Odor:METALLIC & ODORLESS SOLID

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND
FEDERAL REGULATIONS.

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