

CARPENTER TECHNOLOGY CORP -- L-605 IMPLANT QUALITY -- 3439-01-097-5989

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Product Identification  
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Product ID:L-605 IMPLANT QUALITY

MSDS Date:11/01/1985

FSC:3439

NIIN:01-097-5989

Kit Part:Y

MSDS Number: BTSRV

=== Responsible Party ===

Company Name:CARPENTER TECHNOLOGY CORP

Box:14662

City:READING

State:PA

ZIP:19612-4662

Country:US

Info Phone Num:215-371-2000

Emergency Phone Num:215-371-2000

CAGE:71321

=== Contractor Identification ===

Company Name:ATEK METAL CENTER INC. (513-874-3490)

CAGE:0APU4

Company Name:CARPENTER TECHNOLOGY CORP

Address:101 W BERN ST

Box:14662

City:READING

State:PA

ZIP:19612-4662

Country:US

Phone:610-208-2134 / 610-208-2457/2457

CAGE:71321

Company Name:FERCO TECH CORP (513-746-6696)

CAGE:66970

Company Name:U.S. SMALL BUSINESS ADMINISTRATION

CAGE:3S077

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Composition/Information on Ingredients  
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Ingred Name:COBALT (SARA III)

CAS:744

0-48-4  
RTECS #:GF8750000  
Fraction by Wt: 50.5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.05 MG/M3;DUST 9394

Ingred Name:CHROMIUM (SARA III)  
CAS:7440-47-3  
RTECS #:GB4200000  
Fraction by Wt: 20.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:0.5 MG/M3; 9394  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:TUNGSTEN  
CAS:7440-33-7  
RTECS #:YO7175000  
Fraction by Wt: 15.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:NOE ESTABLISHED  
ACGIH TLV:1 MG/M3/3 STEL;9394

Ingr  
ed Name:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 10.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9394

Ingred Name:IRON OXIDE FUME  
CAS:1309-37-1  
RTECS #:NO7400000  
Fraction by Wt: 3.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3 (FE)  
ACGIH TLV:5MG/M3(FE)FUME,B2;94

Ingred Name:MANGANESE (SARA III)  
CAS:7439-96-5  
RTECS #:OO9275000  
Fraction by Wt: 1.5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C 5 MG/M3 DUST  
ACGIH TLV:5 MG/M3 DUST 9394

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

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

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

Health Hazards Acute and Chronic:SPECIALTY STEEL ALLOYS ARE GENERALLY NOT CONSIDERED HAZARDOUS AS SHIPPED.

CUTTING,WELDING,GRINDING,MELTING OR OTHER PROCESSES MAY GENERATE A HAZARDOUS DUST OR FUME. MFR LISTED SIGNS/SYMPTOMS FOR EACH INGREDIENT IN THE ALLOY SEPARATELY. HMIS COMPILED THESE IN THE

SIGNS/SYMPTOMS FIELD. SEE CARCINOGENICITY FOR CHRONIC.

Explanation of Carcinogenicity:CHROMIUM AND NICKEL AND/OR THEIR COMPOUNDS ARE LISTED AS CARCINOGENS BY NTP & IARC. SEE INDIVIDUAL REPORTS FOR DETAILS.

Effects of Overexposure:METAL FUME FEVER AND RESPIRATORY IRRITATION. ALLERGIC SKIN OR RESPIRATORY REACTION. LUNG DAMAGE WHICH MAY NOT BE REVERSABLE. LESS LIKELY ARE BLOOD, KIDNEY AND CNS EFFECTS.

Medical Cond Aggravated by Exposure:NO INFORMATION GIVEN BY MFR ON MSDS.

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

First Aid:INHALED:MOVE PERSON TO FRESH AIR UNTIL RECOVERED, CONSULT A PHYSICIAN. SKIN:WASH WITH WATER AND MILD DETERGENT, CONSULT A PHYSICIAN. EYE:FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MIN, CONSULT A PHYSICIAN. INGESTED:WHILE INGESTION OF LARGE ENOUGH QUANTITIES TO CAUSE HEALTH EFFECTS IS UNLIKELY, CONSULT A PHYSICIAN IF IT OCCURS.

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===== Fire Fighting Measures =====

Flash Point:NONE

Lower Limits:NONE

Upper Limits:NONE

Extinguishing Media:HMIS:PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures:NO INFORMATION GIVEN BY MFR ON MSDS.

Unusual Fire/Explosion Hazard:UNLESS OTHERWISE NOTED, NONE. PRODUCT IS A SOLID METAL.

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===== Accidental Release Measures =====

Spill Release Procedures:PRODUCT IS A SOLID METAL AS SHIPPED. NO POTENTIAL FOR SPILL OR LEAK.

Neutralizin

g Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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Handling and Storage Precautions:NO INFORMATION GIVEN BY MFR ON MSDS.

HMIS:NORMAL STORAGE FOR STEEL STOCKS.

Other Precautions:NONE

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Exposure Controls/Personal Protection  
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Respiratory Protection:IF YOUR PROCESS CAUSES A RELEASE OF DUST OR FUME  
IN EXCESS OF THE PERMISSIBLE EXPOSURE LIMIT, NIOSH APPROVED  
RESPIRATORS FOR PROTECTION AGAINST AIRBORNE D

UST OR FUMES SHOULD BE

WORN. RESPIRATORS SHOULD BE USED I/A/W 29CFR1910.134.

Ventilation:IF YOUR PROCESS CAUSES A RELEASE OF DUST/FUME, USE LOC &  
GEN EXHST VENT TO KEEP AIRBORNE CONC OF DUST/FUMES BELOW TLV.

Protective Gloves:GLOVES &/OR BARRIER CREAMS MAY BE NEEDED

Eye Protection:SAFETY GLASSES OR GOGGLES

Other Protective Equipment:HAND PROTECTION MAY BE NECESSARY TO PREVENT  
SKIN SENSITIZATION & DERMATITIS. USE EYE PROTECTION IF PROCESS  
WARRENTS.

Work Hygienic Practices:MFR: ?

HMIS:USE GOOD INDUSTRIAL HYGIENE

PRACTICE. AVOID UNNECESSARY EXPOSURE. WASH THOROUGHLY BEFORE EATING  
OR DRINKING

Supplemental Safety and Health

NONE

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Physical/Chemical Properties  
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HCC:N1

NRC/State Lic Num:NONE

Boiling Pt:B.P. Text:HIGH

Melt/Freeze Pt:M.P/F.P Text:>2400F,>131

Vapor Pres:NIL

Vapor Density:NIL

Spec Gravity:7.5-8.5

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID, ODORLESS METAL.

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Stability and Reactivity Data

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Stability Indicator/Materials to Avoid: YES  
NONE.

Stability Condition to Avoid: NO INFORMATION GIVEN BY MFR ON MSDS.

Hazardous Decomposition Products: NO INFORMATION GIVEN BY MFR ON MSDS.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Waste Disposal Methods: NO INFORMATION GIVEN BY MFR ON MSDS.

HMIS: DISPOSE I/A/W FEDERAL, STATE & LOCAL REGULATIONS.

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