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## CARPENTER TECHNOLOGY CORP -- L-605 -- 3439-01-097-5989

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

Product ID:L-605

MSDS Date:08/17/1999

FSC:3439

NIIN:01-097-5989

Status Code:A

MSDS Number: CLJKK === Responsible Party ===

Company Name: CARPENTER TECHNOLOGY CORP

Address:101 W BERN ST

Box:14662 City:READING

State:PA

ZIP:19612-4662 Country:US

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

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

Preparer's Name: NOT PROVIDED

CAGE:71321

=== Contractor Identification ===

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

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

Ingred Name: COBALT

CAS:7440-48-4

RTECS #:GF8750000

= Wt:50.5

Other REC Limits: NOT PROVIDED

OSHA PEL:0.1 MG/M3 ACGIH TLV:0.02 MG/M3

Ingred Name:CHROMIUM

CAS:7440-4

7-3

RTECS #:GB4200000

= Wt:20.

Other REC Limits:NOT PROVIDED

OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3 EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000

= Wt:15.

Other REC Limits:NOT PROVIDED

OSHA PEL:NONE ACGIH TLV:5 MG/M3 ACGIH STEL:10 MG/M3

Ingred Name:NICKEL

CAS:7440-02-0

RTECS #:QR5950000

= Wt:10.

Other REC Limits: NOT PROVIDED

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

= Wt:3.

Other REC Limits:NOT PROVIDED

OSHA PEL:10 MG/M3 ACGIH TLV:5 MG/M3

Ingred Name: MANGANESE

CAS:7439-96-5

RTECS #: OO9275000

= Wt:1.5

Other REC Limits:NOT PROVIDED

OSHA PEL:C5 MG/M3 ACGIH TLV:5 MG/M3

LD50 LC50 Mixture: NOT RELEVANT

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

Health Hazards Acute and Chronic: SPECIALTY STEEL ALLOYS ARE NOT

**CONSIDERED HAZARDOUS** 

IN THE FORM SHIPPED. HOWEVER, IF YOUR PROCESS
INVOLVES GRINDING, MELTING, WELDING, CUTTING THAT CAUSES RELEASE OF
DUST OR FUME, HAZARDOUS LEVELS OF DUST OR FUMES COULD BE
GENERATED. INHALATION: PRIMARY ROUTE OF EXPOSURE. STEEL DUSTS AND
FUME MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT. CHRONIC
EXPOSURE MAY AGGRAVATE PRE-EXISTING CONDITIONS. SKI N AND EYE
CONTACT: MAY CAUSE IRRITATION OR SKIN SENSITIVITY. INGESTION:
CERTAIN CONSTITUENTS MAY BE HARMFUL IF SWALLOWED.

Explanation of Carcinogenicity: CONTAINS CHROMIUM.

Effects of Overexposure:SPECIALTY STEEL ALLOYS ARE NOT CONSIDERED HAZARDOUS IN THE FORM SHIPPED. HOWEVER, IF YOUR PROCESS INVOLVES GRINDING, MELTING, WELDING, CUTTING THAT CAUSES RELEASE OF DUST OR FUME, HAZARDOUS LEVELS OF DUST OR FUMES COULD BE GENERATED. INHALATION: STEEL DUSTS AND FUME MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT. SKIN AND EYE CONTACT: MAY CAUSE IRRITATION OR SKIN SENSITIVITY.

Medical Cond Aggravated

by Exposure: EXPOSURE MAY AGGRAVATE PRE-EXISTING CONDITIONS.

====== First Aid Measures ====	===========
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First Aid:AS SHIPPED, THE STEEL IS AN ARTICLE. THE LIKELIHOOD OF HAZARDOUS CONSEQUENCES THROUGH EYE OR SKIN CONTACT, INHALATION OR INGESTION WOULD BE CONSIDERED MINIMAL. INHALATION: REMOVE PERSON FROM EXPOSURE TO FRESH AIR. IF BREATHING DIFFICULTY OCCURS, GET PROMPT MEDICAL ATTENTION. SKIN/EYE CONTACT: FLUSH EYE WITH PLENTY OF WATER FOR 15 M

INUTES, SEEK MEDICAL ATTENTIO IF IRRITAION
PERSISTS. WASH SKIN WITH SOAP AND WATER. IF RASH DEVELOPS, SEEK
MEDICAL ATTENTION. INGESTION: SEEK MEDICAL ATTENTION.

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

Autoignition Temp:Autoignition Temp Text:NOT AV
Extinguishing Media:NOT PROVIDED
Fire Fighting Procedures:NO SPECIAL INSTRUCTIONS FOR PRODUCT AS SHIPPED.

Unusual Fire/Explosion Hazard:NOT PROVIDED

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

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Spill Release Procedures:LAND/WATER SPILL: AS SHIPPED, THIS PRODUCT DOES NOT POSE A HAZARD TO THE ENVIRONMENT.
=========== Handling and Storage ==============
Handling and Storage Precautions:STORE AWAY FROM ACIDS AND OXIDIZERS. Other Precautions:NOT PROVIDED
====== Exposure Controls/Personal Protection ========
Respiratory Protection:IN THE ABSENCE OF FEASIBLE ENGINEERING CONTROLS, WEAR A NIOSH APPROVED RESPIRATOR FOR PROTECTION FOR THE TYPE OF
PARTICULATE GENERATED.  Ventilation:THE USE OF LOCAL EXHAUST VENTILATION IS RECOMMENDED TO CONTROL EMISSIONS NEAR THE SOURCE OF METAL BEING CUT, GROUND, WELDED OR MELTED.
Protective Gloves:WHEN HANDLING THE STEEL PRODUCT, LEATHER GLOVES ARE RECOMMENDED.
Eye Protection:SAFETY GLASSES AND A FACE SHIELD WHEN GRINDING THE PRODUCT.
Other Protective Equipment:ADDITONAL PERSONAL PROTECTIVE EQUIPMENT IS DEPENDENT ON THE OPERATION PERFORMED, FOR EXAMPLE SAFETY GLASSES A
ND A FACE SHIELD WHEN GRINDING THE PRODUCT. Work Hygienic Practices:IF INDUSTRIAL HYGIENE MONITORING REVEALS AN OVEREXPOSURE DURING THE PROCESSING OF THE PRODUCT, ENGINEERING CONTROLS ARE REQUIRED TO BE INSTALLED TO REDUCE EXPOSURE BELOW OSHA PERMISSIBLE EXPOSURE LIMITS
Supplemental Safety and Health ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.
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HCC:N1 NRC/State Lic Num:NOT RELEVANT Melt/Freeze Pt:M.P/F.P Text:2400-2800 DEGREES F Decomp Temp:Decomp Text:NOT PROVIDED Spec Gravity:7.5-8.5 Solubility in Water:INSOLUBLE Appearance and Odor:ODORLESS. GRAY IN COLOR
========== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES ACIDS, BASES AND OXIDIZERS.
Stability Condition to Avoid:ACIDS, BASES AND OXIDIZERS.
Hazardous Decomposition Products:

NONE FOR PRODUCT AS SHIPPED.
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Toxicological Information:NOT RELEVANT
============ Ecological Information ================
Ecological:NOT RELEVANT
========= Disposal Considerations ============
Waste Disposal Methods:RECYCLING OF ALL METALLIC BYPRODUCTS AS SCRAP IS STRONGLY ENCOURAGED. IF BYPRODUCTS NEED TO BE TREATED AND/OR DISPOSED OF AS WASTES, HAZARDOUS WASTE CHARACTERIZATIONS MUST BE
PERFORMED PRIOR TO TREATI NG AND/OR DISPOSING. CONTACT APPROPRIATE PARTIES TO ENSURE COMPLIANCE WITH FEDERAL, STATE, LOCAL RUL ES/REGULATIONS RELATED TO WASTE TREATMENT/DISPOSAL
========= MSDS Transport Information ============
Transport Information:NOT PROVIDED
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SARA Title III Information:SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): SECTION 311/312 HAZARDOUS CATEG ORIES: NOT
APPLICABLE FOR STORAGE OF ITEMS AS SHIPPED, HOWEVER IF PROCESSED, END PRODUCT MAY REQUIRED REPO RTING. 313: PRODUCT INGREDIENTS SUBJECT TO REPORTING REQUIREMENTS MAY INCLUDE: CHROMIUM, NICKEL, MANGANESE, COBALT, COPPER, VANADIUM, TITANIUM OR ALUMINUM. REGULATIONS SUCH AS CLEAN AIR ACT, CLEAN WAT ER ACT, RESOURCE CONSERVATION & RECOVERY ACT MAY APPLY TO THE HANDLING OF STEEL GRINDINGS AND PARTICULATES FROM PROCESSING.
Federal Regulatory Information:TSCA (TOX IC SUBSTANCES CONTROL ACT): NOT APPLICABLE. CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE,
COMPENSATION AND LIABILITY ACT): NOT APPLICABLE.  State Regulatory Information: CALIFORNIA SAFE DRINKING WATER ACT  (PROPOSITION 65) LISTING: NICKEL 7440-02-0 AND COBALT 7440-48-4
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