View NSN Online: https://aerobasegroup.jp/nsn/3439-00-882-7351

CARPENTER TECHNOLOGY CORP -- PYROMET 680 HI TEMP ALLOY, 5510941 -- 3439-00-882-7351

Product ID:PYROMET 680 HI TEMP ALLOY, 5510941

MSDS Date:10/01/2000

FSC:3439

NIIN:00-882-7351 Status Code:A

MSDS Number: CLBRN === Responsible Party ===

Company Name: CARPENTER TECHNOLOGY CORP

Address:101 W BERN ST

Box:14662 City:READING State:PA

310:4064

ZIP:19612-4662 Country:US Info Phone

Num:610-208-2134 / 610-208-2457/2463

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

Resp. Party Other MSDS Num.: REV NO 5

CAGE:71321

=== Contractor Identification === Company Name:AERO MIST INC Address:990 INDUSTRIAL PARK DR

Box:City:MARIETTA

State:GA

ZIP:30062-2433

Country:US

Phone:404-422-2071

Contract Num:SP0490-96-MBS86

CAGE:52435

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:7132

1

Company Name: JO-JON INC

Address:360 FREEPORT BLVD SUITE 1 & 2

Box:UNKNOW City:SPARKS

State:NV ZIP:89431 Country:US

Phone:702-356-6988

Contract Num:SP0490-99-M-W524

CAGE:009J0

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

Ingred Name:NICKEL

CAS:7440-02-0

RTECS #:QR5950000

= Wt:47.7

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

Ingred Name: CHROMIUM

CAS:7440-47-3

RTECS #:GB4200000

= Wt:21.5

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

Ingred Name:IRON

(REGULATED IN OXIDE FORM)

CAS:1309-37-1

RTECS #:NO7400000

= Wt:18.

OSHA PEL:10 MG/M3

ACGIH TLV:5 MG/M3;2 PPM

Ingred Name: MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000

= Wt:8.8

OSHA PEL:5 MG/M3 (SOL) ACGIH TLV:10 MG/M3 (INSOL)

Ingred Name: MANGANESE

CAS:7439-96-5

RTECS #: OO9275000

= Wt:.6

OSHA PEL:5 MG/M3 C ACGIH TLV:0.2 MG/M3 C

Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000

= Wt:.6

OSHA PEL:NONE

ACGIH TLV:5 MG/M3, 10 MG/M3 C

OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name: COPPER

CAS:7440-50-8

RTECS #:GL5325000

= Wt:.1

Other REC Limits:0.1 MG/M3 (FUME)

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES

Health Hazards Acute and Chronic: AS SHIPPED, THE METAL PRODUCT IS AN

ARTICLE, THE LIKELIHOOD FOR HAZARDOUS CONSEQ

UENCES THROUGH EYE,

SKIN CONTACT, INHALATION, OR INGESTION WOULD BE CONSIDERED MINIMAL. HOWEVER, IF YOUR PROCESS INVOLVE S GRINDING, MELTING, WELDING, CUTTING, OR OTHER PROCESS THAT CAUSES RELEASE OF DUST OR FUME, HAZARDOUS LEVELS OF THESE ALLOYS COULD BE GENERATED. INHALATION: PRIMARY ROUTE OF EXPOSURE, STEEL DUSTS AND FUMES MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT. CHRONIC EXPOSURE MAY AGGRAVATE PRE-EXISTING CONDITIONS. SKIN AND EYE CONTACT: MAY CAUSE IRRITATIO

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OR SKIN SENSITIVITY. INGESTION: CERTAIN CONSTIT UENTS MAY BE HARMFUL IF SWALLOWED.

- Explanation of Carcinogenicity:LIST OF CHEMICALS KNOWN TO CAUSE CANCER AND REPRODUCTIVE TOXICITY INCLUDES HEXAVALENT COMPOUNDS OF CHROMIUM AND NICKEL DUST FROM PYROMETALLURGICAL PROCESSING.
- Effects of Overexposure:SYMPTOMS ARE FLU-LIKE INCLUDING: SHORTNESS OF BREATH, COUGHING, MUSCLE PAIN, FEVER AND CHILLS. GENERALLY, SYMPTOMS RESOLVE WITH REST IN A FEW DAYS. ALSO SYMPTOMS BASED ON IN
- DIVIDUAL INGREDIENTS: EYES: IRRITATION. SKIN: IRRITATION, CONTACT DERMATITIS, ULCERATION, ALLERGIC REACTIONS. INHALATION: IRRITATION OF MUCOUS MEMBRANES, FIBROSIS, NASAL IRRITATION, CANCER, KIDNEY AND LIVER DAMAGE, FUME FEVER, SIDEROSIS, CNS SYMPTOMS, HEADACHE, CHANGES IN MOTOR ACTIVITY AND PSYCHOLOGICAL DISTURBANCES.

Medical Cond Aggravated by Exposure: CHRONIC EXPOSURE TO ALLOY DUSTS AND FUMES MAY AGGRAVATE PRE-EXISTING CONDITIONS.

======= First Aid Meas

First Aid:AS SHIPPED, THE METAL PRODUCT IS AN ARTICLE. THE LIKELIHOOD FOR HAZARDOUS CONSEQUENCES THROUGH EYE OR SKIN CONTACT, INHALATION ,OR INGESTION WOULD BE CONSIDERED MINIMAL. INHALTION: REMOVE PERSON FROM EXPOSURE TO FRESH AIR. IF BREATHING DIFFICULTY OCCURS, GET PROMPT MEDICAL ATTENTION. SKIN/EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES, SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WA SH SKIN WITH SOAP AND WATER, IF R

ASH DEVELOPS, SEEK

MEDICAL ATTENTION. INGESTION: SEEK MEDICAL ATTENTION.

Flash Point: NOT COMBUSTIBLE

Extinguishing Media: IN THE FORM SHIPPED, THESE SPECIALTY METALS ARE NOT COMBUSTIBLE.

Fire Fighting Procedures: NO SPECIAL INSTRUCTIONS OR EQUIPMENT FOR PRODUCT AS SHIPPED.

Unusual Fire/Explosion Hazard:IN THE FORM SHIPPED, HAZARDOUS DECOMPOSITION PRODUCTS ARE NOT EXPECTED.

---- Accidental Releas

e Measures ===========
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
====== Exposure Controls/Personal Protection ========

Respiratory Protection:IF INDUSTRIAL HYGENE MONITORING REVEALS AN OVEREXPOSURE DURING THE PROCESSING OF THE PRODUCT, ENGINEERING CONT

ROLS ARE REQUIRED TO BE INSTALLED TO REDUCE EXPOSURES BELOW OSHA PERMISSIBLE EXPOSURE LIMI TS. IN THE ABSENCE OF FEASIBLE ENGINEERING CONTROLS, WEAR A NIOSH APPROVED RESPIRATOR FOR PROTECTION FOR THE TYPE OF PARTICULATE GENERATED.

Ventilation:LOCAL EXHAUST VENTILATION RECOMMENDED TO CONTRROL EMISSIONS NEAR THE SOURCE OF METAL BEING CUT, GROUND, WELDED, OR MELTED.

Protective Gloves:LEATHER GLOVES WHEN HEATING STEEL PRODUCT.

Eye Protection: SAFETY GLASSES AND FACE SHIELD WHEN GRINDI

NG

Other Protective Equipment: ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT IS DEPENDENT ON THE OPERATION PERFORMED.

Supplemental Safety and Health

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

HCC:N1

Melt/Freeze Pt:=1315.6C, ######F M.P/F.P Text:2400F TO 2800F

Spec Gravity:7.5-8.5

Solubility in Water: INSOLUBLE

Appearance and Odor: GRAY SOLID; ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

ACIDS, B

ASES, AND OXIDIZERS

Hazardous Decomposition Products: NONE FOR PRODUCT AS SHIPPED.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

======== Toxicological Information ==========

Toxicological Information:SPECIALTY STEEL ALLOYS ARE GENERALLY NOT CONSIDERED HAZARDOUS IN THE FORM SHIPPED (SOLID BAR, WIRE, STRIP OR BILLETS). HOWEVER, IF YOUR PRICESS INVOLVES GRINDING, MELTING, WELDING, CUTTING OR ANY OTHE R PROCESS THAT CAUSES RELEASE OF DUSTOR FUME, HAZAREIUS

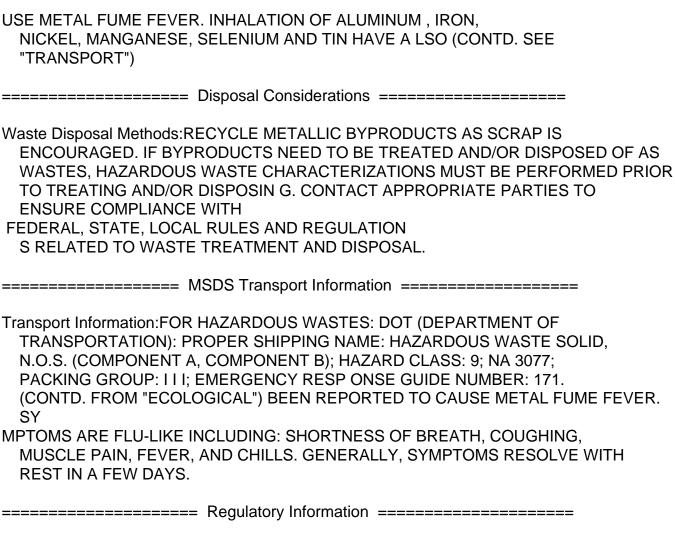
LEVELS OF DUST OR FUMES OF THE CONSTITUENTS

OF THESE ALLOYS COULD BE GENERATED. THE FOLLOWING IS A LIST OF POTENTIAL HEALTH EFFECTS FOR THE HAZA RDOUS ELEMENTS THAT MAY BE CONTAINED IN ANY OF THE ALLOYS. PLEASE REFER TO THE HAZARDOOUS INGREDIENTS PRECEDING FOR A LIST OF THOSE SPECIFIC ELEMENTS CONTAINED IN THE PARTICULAR ALLOY. (CONTD. SEE "E COLOGICAL")

========== Ecological Information ================

Ecological:(CONTD. FROM "TOXICOLOGICAL") IT IS THE USERS

RESPONSIBILITY TO ASSESSS POTENTIAL EXPOSURES BASED ON THEIR PROCESSING OF THE PRODUCT. ADDITIONALLY, PROTECTIVE COATINGS MAY HAVE BEEN APPLIED TO THE ST EEL AT THE REQUEST OF THE CUSTOMER. THE COATING WOULD REPRESENT LESS THAN 0.5% OF THE TOTAL MATERIAL PRESENT. MATERIAL SAFETY DATA SHEETS ARE AVAILAGLE FOR THESE COATING PROCUCTS AT YOUR REQUEST. GENE RAL: WELDING FUME, FUMES FRESHLY GENERATED BY THE WELDING OF ZINC, MAGNESIUM, AND COPPER, ARE KNOWN TO CA



SARA Title III Information:311/312 HAZARDOUS CATEGORIES: NOT APPLICABLE FOR STORAGE OF ITEMS AS SHIPPED, HOWEVER IF PROCESSED, END PRODUCT MAY REQUIRE REPORTING. 313: PRODUCT INGREDIENTS SUBJECT TO REPORTING REQUIREMENTS MAY IN CLUDE: CHROMIUM, NICKEL, MANGANESE

COBALT, COPPER, VANADIUM, TITANIUM, OR ALUMINUM.

Federal Regulatory Information: TSCA (TOXIC SUBSTANCES CONTROL ACT): NOT APPLICABLE. CERCLA (COMPREHENSIBLE RESPONSE COMPENSATION AND LIABILITY ACT): NOT APPLICABLE. REGULATIONS SUCH AS CLEAN AIR ACT, CLEAN WATER ACT, RESOURCE CONCE RVATION & RECOVERY ACT MAY APPLY TO THE HANDLING OF STEEL GRINDINGS AND PARTICULATES FROM PROCESSING.

State Regulatory Information: CALIFORNIA SAFE DRINKING WATER ACT (PROP 65) LISTING: NICKEL,

CAS# 7440-02-0; COBALT, CAS# 7440-48-4.
GOVERNORS LIST OF CHEMICALS KNOWN TO CAUSE CANCER AND REPRODUCTIVE TOXICITY INCLUDES HEXAVALENT CO MPOUNDS OF CHROMIUM AND NICLEL DUST FROM PYROMETALLURGICAL PROCESSING.

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