

DYNAMET INC. POWDER PRODUCTS DIV. -- PWA 1316D, GRADE G185 POWDER, PLASMA SPRAY,
-- 3439-01-130-8826

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

Product ID:PWA 1316D, GRADE G185 POWDER, PLASMA SPRAY,

MSDS Date:02/20/1992

FSC:3439

NIIN:01-130-8826

MSDS Number: BPKYM

=== Responsible Party ===

Company Name:DYNAMET INC. POWDER PRODUCTS DIV.

Address:600 MAYER STREET

City:BRIDGEVILLE

State:PA

ZIP:15017-2777

Cou

ntry:US

Info Phone Num:412-257-5102

Emergency Phone Num:412-257-5102

Preparer's Name:A.J. GREGUS

CAGE:0R811

=== Contractor Identification ===

Company Name:DYNAMET INC. POWDER PRODUCTS DIV.

Address:600 MAYER STREET

Box:City:BRIDGEVILLE

State:PA

ZIP:15017-2777

Country:US

Phone:412-257-5102

CAGE:0R811

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

Ingred Name:CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000

Fraction by Wt: 0.49%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:3.5 MG/

M3
ACGIH TLV:3.5 MG/M3; 9192

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 0.03%
Other REC Limits:NONE RECOMMENDED
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: 0.26%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SULFUR
CAS:7704-34-9
RTECS #:WS4250000
Fraction by Wt: 0.003%
Other REC Limits:NONE RECOMMENDED

Ingred Name:PHOSPHOR
US
CAS:7723-14-0
RTECS #:TH3495000
Fraction by Wt: 0.006%
Other REC Limits:NONE RECOMMENDED
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 25.69%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:TUNGSTEN
CAS:7440-33-7
RTECS #:YO7175000
Fraction by Wt: 7.45%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3/ 10 STEL
ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred

Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 10.69%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 0.12%
Other REC Limits:NONE RECOMMENDED

Ingred Name:COBALT (SARA III)
CAS:7440-48-4
RTECS #:GF8750000
Fraction by Wt: BALENCE
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1 MG/M3;AS CO
ACGIH TLV:0.05 MG/M3;DUST 9293

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===== Hazards Identification =====
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:NO TOXIC EFFECTS WOULD BE EXPECTED FROM
ITS INERT SOLID FORM. PROLONGED EXPOSURE TO FUMES OR DUSTS
GENERATED DURING HEATING, CUTTING, BRAZING OR WELDING MAY CAUSE
ADVERSE HEALTH EFFECTS DUE TO SOME OF THE CONSTITUENTS MENTIONED
IN THE FORMULA OR TYPICAL ANALYSIS. SOME CONSTITUENTS POSE MORE
POTENTIAL HAZARDS THAN OTHERS

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

Effects of Overexposure:NI SIGNS & SYMPTOMS GIVEN ON MSDS.
Medical Cond Aggravated by Exposure:NO INFORMATION GIVEN ON MSDS BY
MFR.

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===== First Aid Measures =====
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First Aid:INHALATION: INCASE OF OVEREXPOSURE, IMMEDIAATELY MOVE PERSON
FROM CONTAMINATED AI TO FRESH AIR AT ONCE. GIVE ARTIFICAL
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ESPIRATION IF BREATHING HAS STOPPED OR OXYGEN IF NECESSARY. GET MEDICAL ATTENTION IF NECESSARY.

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

Flash Point:"NOT APPLICABLE"
Extinguishing Media:NO FIRE OR EXPLOSION HAZARDS.
Fire Fighting Procedures:"NOT APPLICABLE"
Unusual Fire/Explosion Hazard:"NOT APPLICABLE"

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

Spill Release Procedures:"NOT APPLICABLE"
Neutralizing Agent:NO INFORMATION GIVEN ON MSDS BY MFR.

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

Handling and Storage Precautions:NO SPECIAL HANDLING IS REQUIRED IN ITS INERT SOLID FORM. DURING WELDING, AIRBORN CONTAMINENTS & NOXIOUS GASES MAY ORIGINATE FROM THE WELDING ROD.
Other Precautions:"WE CANNOT COMPREHEND ALL OF THE VARIOUS SITUATIONS THAT MAY ARISE IN THE USE OF OUR PRODUCTS, THEREFORE OUR CUSTOMERS ARE RESPONSIVLE FOR ANY HAZARDS AND PRECAUTIONS NOT LISTED ON THIS MATERIAL SAFETY DATA SHEET."

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

Respiratory Protection:USE DUST MASK WHEN HANDLING POWDER FORM OF ALLOY.
Ventilation:USE OF EXHAUST SYSTEMS ARE SUGGESTED FOR ABRASIVE CUTTING,GRINDING, WELDING, AND BURNING.
Protective Gloves:RECOMMENDED
Eye Protection:SAFETY GLASSES OR WELDERS' GOGGLES
Other Protective Equipment:PRECAUTION SHOULD BE TAKEN TO PROTECT AGAINST BURNS.
Work Hygienic Practices:MFR: ? HMIS:USE GOOD INDUSTRIAL HYGIENE PR
ACTICE. AVOID UNNECESSARY CONTACT. WASH THOROUGHLY BEFORE EATING OR DRINKING
Supplemental Safety and Health
NONE

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

HCC:N1
NRC/State Lic Num:NONE
Boiling Pt:B.P. Text:5000F,2760C
Spec Gravity:POWDER
Appearance and Odor:ODORLESS SOLID WITH METALLIC LUSTER, AVAILABLE IN SNEET,STRIP,BAR,ROD,BILLET,ET

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

Stability Indicator/Materials to Avoid:YES
SUPPLIER DID

NOT ADDRESS THIS FIELD.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:METAL FUMES AND CERTAIN NOXIOUS GASES
SUCH AS CARBON MONOXIDE, MAY BE PRODUCED DURING WELDING OPERATIONS.

Conditions to Avoid Polymerization:WILL NOT OCCUR

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

Waste Disposal Methods:"NOT APPLICABLE" (IT IS RECOMMENDED THAT ALL
SCRAP GENERATED BE RECLAIMED AND SUBSEQUENTLY RECYCLED.)

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