

POLYMET CORPORATION -- ALLOY W -- 3439-00-166-9584

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

Product ID:ALLOY W

MSDS Date:11/01/1985

FSC:3439

NIIN:00-166-9584

MSDS Number: BJHTL

=== Responsible Party ===

Company Name:POLYMET CORPORATION

Address:10073 COMMERCE PARK DRIVE

City:CINCINNATI

State:OH

ZIP:45246

Info Phone Num:(513) 874-2880

Emergency Phone Num:(513) 874-2880

CAGE:JO817

=== Contractor Identific

ation ===

Company Name:POLYMET CORP

Address:4505 MULHAUSER RD

Box:City:HAMILTON

State:OH

ZIP:45011

Country:US

CAGE:55596

Company Name:POLYMET CORPORATION

CAGE:JO817

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

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 58.50%

Other REC Limits:1 MG/CUM A1

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 19.50%

OSHA PEL:1 MG/M3

AC

GIH TLV:0.5 MG/M3; 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750000

Fraction by Wt: 13.00%

Other REC Limits:0.05 PPM

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000

Fraction by Wt: 4.00%

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3; 9293

Ingred Name:TITANIUM DIOXIDE

CAS:13463-67-7

RTECS #:XR2275000

Fraction by Wt: 3.00%

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingre

d Name:ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt: 1.00%

OSHA PEL:15MG/M3 DUST/5 FUME

ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:IRON OXIDE

CAS:1309-37-1

RTECS #:NO7400000

Fraction by Wt: 1.00%

OSHA PEL:10 MG/M3 (FE)

ACGIH TLV:5 MG/M3(FE),B2; 9293

==== Hazards Identification =====

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

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

Health Hazards Acute and Chronic:INHALATION:

DUST/FUMES CAUSE

IRRITATION OF NOSE/THROAT/RESPIRATORY SYSTEM/LUNG CHANGES/DISEASE/COUGH/SHORTNESS OF BREATH/PERMANENT DISABILITY/FLU-LIKE ILLNESS/FEVER/MUSCLE ACHES/NAUSEA/CHILLS/DRY THRO AT/METALLIC TASTE/WEAKNESS/CRAMPS/BRONCHITIES/DEATH. SKIN: ALLERGIC RASH/DERMATITIS. INGESTION: HARMFUL.

Explanation of Carcinogenicity:CHROMIUM/ALLOYS, COBALT, & NICKEL HAVE BEEN IDENTIFIED AS POTENTIAL CANCER CAUSING AGENTS.

Effects of Overexposure:INHALATION: DUST/FUMES CAUSE BERYLLIUM

DISEASE/FATAL/RESPIRATORY DISEASE/PERMANENT DISABILITY/METAL FUME FEVER/X-RAY CHANGES OF LUNGS/AFFECT NERVOUS SYSTEM/MEMORY TROUBLE/PNEUMONIA/WEIGHT LOSS/TRANSIENT LESIONS OF LUNGS/WHEEZING/CHEST PAIN/DEATH. INGESTION: DIGESTIVE DISTURBANCES. EYE/SKIN: IRRITATION/ALLERGIC RASH.

Medical Cond Aggravated by Exposure:ALLERGIC RASH, DERMATITIS, SENSITIZATION

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

First Aid:INHALATION: MOVE PERSON TO FRESH AIR. CONSULT PHYSICIAN.

SKIN: WASH W/WATER & MILD DETERGENT. CONSULT PHYSICIAN. EYE: FLUSH THOROUGHLY W/WATER, CONSULT PHYSICIAN. INGESTION: CONSULT PHYSICIAN.

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

Spill Release Procedures:NO POTENTIAL FOR SPILL OR LEAK.

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

Handling and Storage Precautions:IF PROCESS INVOLVES GRINDING/MELTING/WELDING/CUTTING THAT CAUSES RELEASE OF DUST/FUME, HAZARDOUS LEVELS OF DUST/FUME OF ALLOYS COULD BE GENERATED.

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

Respiratory Protection:IF PROCESS CAUSES A RELEASE OF DUST/FUME >TLV, NIOSH APPROVED RESPIRATORS FOR PROTECTION AGAINST AIRBORNE DUST/FUMES SHOULD BE WORN.

Ventilation:PROVIDE LOCAL EXHAUST/MECHANICAL VENTILATION TO KEEP