

HAYNES INTERNATIONAL INC SUB OF CABOT CORP -- ALLOY 188 -- 3439-01-149-0529

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

Product ID:ALLOY 188

MSDS Date:07/01/1990

FSC:3439

NIIN:01-149-0529

MSDS Number: BPPFM

=== Responsible Party ===

Company Name:HAYNES INTERNATIONAL INC SUB OF CABOT CORP

Address:1020 W PARK AVE

Box:9013

City:KOKOMO

State:IN

ZIP:46902-9013

Country:US

Info Phone Num:317-456-6625/6020

Emergency Phone Num:317-456-6894/800-424-9300(CHEMTREC)

CAGE:80357

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Contractor Identification ===

Company Name:AUFHAUSER CORP

Address:39 WEST MALL

Box:City:PLAINVIEW

State:NY

ZIP:11803-4209

Country:US

Phone:212-757-6824/FAX: 516-694-8690

CAGE:59401

Company Name:HAYNES INTERNATIONAL INC SUB OF CABOT CORP

Address:1020 W PARK AVE

Box:9013

City:KOKOMO

State:IN

ZIP:46904-9013

Country:US

Phone:318-263-2002;765-456-6614

CAGE:80357

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

Ingred Name:COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750000

Fracti

on by Wt: 30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1 MG/M3;AS CO
ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 22%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9293
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:IRON
CAS:65996-67-0
Fraction by Wt: 3.0% MAX
Other REC Limits:NONE RECOMMENDED

Ingred Name:LANTHANUM
Fraction by Wt: 0.07%
Other REC Limits:NONE RECOMMENDED

Ingred Name:MANGANESE (SAR
A III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 1.25%MAX
Other REC Limits:NONE RECOMMENDED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 22%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 0.35%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:TUNGSTEN
CAS

:7440-33-7
RTECS #:YO7175000
Fraction by Wt: 14%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3/ 10 STEL
ACGIH TLV:5 MG/M3/10 STEL;9293

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE-WELDING FUMES MAY CAUSE
DISCOMFORT,DIZZINESS,NAUSEA & DRYNESS/IRRITATION OF THE
THR
OAT.CHRONIC-WELDING FUMES,GASES/DUST MAY CAUSE PULMONARY
IRRITATION/PNEUMONITIS.IRON FUME MAY PRODUCE SIDEROSIS .NICKEL &
HEXAVALENT CHROMIUM HAVE BEENREPORTED TO BE CARCINOGENIC.
Explanation of Carcinogenicity:THIS MATERIAL CONTAINS NICKEL AND
CHROMIUM.
Effects of Overexposure:WELDING FUMES MAY CAUSE DISCOMFORT, DIZZINESS,
NAUSEA AND DRYNESS OR IRRITATION OF THE THROAT. FUMES, GASES OR
DUSTS MAY CAUSE PULMONARY IRRITATION OR PNEUMONITIS. IRON FUME MAY
PRODUCE SIDEROSIS.
NIC KEL & HEXAVALENT CHROMIUM HAVE BEEN REPORTED
TO BE CARCINOGENIC.
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING
RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE
WELDING FUMES.

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

First Aid:GET MEDICAL CARE IF NEEDED.EYES:FLUSH WITH WATER FOR 15
MINUTES HOLDING EYELIDS OPEN.SKIN:WASH THOROUGHLY WITH SOAP &
WATER.INHALATION:REMOVE TO FRESH AIR.PROVIDE CPR IF
NEEDED.INGES
TION:CALL A DOCTOR .

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

Flash Point:NONE
Extinguishing Media:THIS ALLOY IS NONCOMBUSTIBLE. TO EXTINGUISH A METAL
POWDER FIRE, USE DRY SAND, DRY GRAPHITE OR OTHER CLASS "D" POWDER.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED
CONTAINERS WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:NONE. IN CONTACT WITH ACIDS, HYDROGEN GAS

WILL BE FORMED WHICH IS FLAMMABLE AND EXPLOSIVE.

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

Spill Release Procedures:WEAR RESPIRATORY EQUIPMENT DURING CLEANUP. USE EQUIPMENT THAT KEEPS MATERIAL FROM BECOMING AIRBORNE. TO MINIMIZE DUST GENERATION I.E. WET MOP, HEPA VACUUM.

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

Handling and Storage Precautions:STORAGE-KEEP MATERIAL IN CLOSED CONTAINERS AWAY FROM MOISTURE,STRONG OXIDIZERS & ACIDS.

Other Precautions:NO FOOD OR SMOKING IN WORK AREAS. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING FUMES AND VAPORS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW PEL, TLV OR STEL.

Ventilation:LOCAL EXHAUST AT THE ARC (OR FLAME), OR BOTH, TO KEEP THE FUMES AND GASES BELOW PEL'S, TLV'S OR STEL'S IN BREATHING ZONE

Protective Gloves:WELDER'S GLOVE

Eye Protection:PROTECTIVE FACE SHIELD

Other Protective Equipment:EYE WASH STATION, APRONS, HATS, ARM & SHOULDER PROTECTION, AS WELL AS DARK SUBSTANTIAL CLOTHING.

Work Hygienic Practices:WEAR HEAD AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.

Supplemental Safety and Health
FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE PNI A UNDER THE SAME NSN.

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID SILVER GREY COLOR - NO ODOR

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS AND ACIDS

Stability Condition to Avoid:FIRE

Hazardous Decomposition Products:METAL OXIDES. DECOMPOSITION PRODUCTS INCLUDE THOSE ORIGINIATING FROM

INGREDIENTS + THOSE FROM THE BASE
METAL & COATING.

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

Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

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