

HAYNES INTERNATIONAL INC SUB OF CABOT CORP -- PN#:188 ALLOY,H2071-1 CORRO RESIST ALLOYS & HEAT RESIST ALLO -- 3439-01-149-0529

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

Product ID:PN#:188 ALLOY,H2071-1 CORRO RESIST ALLOYS & HEAT RESIST ALLO

MSDS Date:09/01/1993

FSC:3439

NIIN:01-149-0529

MSDS Number: CHMFC

=== 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

In  
fo Phone Num:317-456-6000 / FAX 317-456-6905

Emergency Phone Num:317-456-6000

CAGE:80357

=== Contractor Identification ===

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 313)

CAS:7440-48-4

RTECS #:GF8750000

Fraction by Wt: 39%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.

1 MG/M3  
ACGIH TLV:0.02 MG/M3; A3; 9596

Ingred Name:CHROMIUM (SARA 313) (CERCLA)  
CAS:7440-47-3  
RTECS #:GB4200000  
Fraction by Wt: 2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:0.5 MG/M3; 9596  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:IRON  
CAS:7439-89-6  
RTECS #:NO4565500  
Fraction by Wt: 3% MAX  
Other REC Limits:NONE RECOMMENDED

Ingred Name:LANTHANUM  
CAS:7439-91-0  
Fraction by Wt: 0.03%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:MANGANESE (SARA 313)  
CAS:7439-96-5  
RTECS #:O  
O9275000  
Fraction by Wt: 1.25% MX  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C, 5 MG/M3 (FUME)  
ACGIH TLV:0.2 MG/M3; 9596

Ingred Name:NICKEL (SARA 313) (CERCLA)  
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; 9596

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; 9596

Ingred Name:TUNGSTEN,AS W,SOLUBLE COMPOUNDS.  
CA

S:7440-33-7  
RTECS #:YO7175000  
Fraction by Wt: 14%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:NOE ESTABLISHED  
ACGIH TLV:1 MG/M3/3 STEL; 9596

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:INHAL:METAL DUST/FUME/POWDER FRM  
OPERATIONS WHICH GENERATE AIRBORNE METAL PARTICU DURIN  
G MATLS  
USE.INGEST:HAND/CLOTH/FOOD/DRINK CONTACT W/METAL DUST/FUME/POWDER  
CAN CAUSE PARTICU INGEST DURING HAND TO MOUTH  
ACTIVITES(DRINK/SMOKE/NAIL BITING,ETC.)SKIN:CONTACT MAY CAUSE IN  
SOME SENS PEOPLE ALLERGIC RESPON IF (SIGN/SYMPT)  
Explanation of Carcinogenicity:PER MSDS:NI,NI CMPD,CHROMIUM,HEXAVALENT  
CR,COBALT.CA PROP 65.  
Effects of Overexposure:HEALTH:CHROME/CO/CU/NI PRESENT.METAL  
DUST/POWDER CONTACT/ABRASION MAY CAUSE IRRIT/DERM.EYE:PARTICU METAL  
MAY BE DANGEROU  
S TO EYE/SURROUND TISSUE.AIRBORNE PARTICU POT  
PROBLEMS.IRRIT SKIN/EYE/MUC MEMB.A LLERGIC SKIN RX,ABRADES SKIN  
CAUSE IRRIT/DERM,EYE IRRIT/MECHAN INJURY TO CORNEA/CONJ.RESP  
IRRIT,COUGH,BRONCHITIS,(SUPPL)  
Medical Cond Aggravated by Exposure:THOSE W/ALLERGIC RX/SENS TO  
METALS(CR,CU,CO,NI)MAY ENCOUNTER RASH/DERM.THOSE W/IMPAIRE PULM  
FUNCTION,AIRWAY DISEASES,CONDITIONS(ASTHMA/EMPHYSEMA/ETC)INCUR  
FURTHER DISABIL.CNS/CIR/BLOOD/KID DMG/DISEASE

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

First Aid:INHAL:BREATH DIFFI MOVE TO FRESH AIR.STOP BREATH PERFORM ART  
RESP,GET MED ASSIST @ONCE.INGEST:SWALLOW LG QUANT OF WATER,ATTEMPT  
TO INDUCE VOMIT IF CONSC.GET MED ASSIST @ONCE.SKIN:CUT/ABRASION  
TREAT BY STD 1ST AID:CONTAM REMOVE BY WASHING W/SOAP/WATER.IRRIT  
PERSIST GET MED ASSIST.EYE:FLUSH W/COP AMTS OF CLEAN WATER.IRRIT  
PERSIST GET MED ASSIST.SHOULDN'T WEAR CONTACT LENS IF WORK W/METAL  
DUST/POWDER.

===== Fire F

ighting Measures =====

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:NP

Lower Limits:NONE

Upper Limits:NONE

Extinguishing Media:THESE ALLOYS ARE NON-COMBUSTIBLE.USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:THESE MATL REDUCE TO POWDER FORM,CAUT MUST BE USED TO PREVENT FIRE/EXPLO.TO EXTINGUISH METAL POWDER FIRE USE DRY SAND/DRY GRAPHITE/OTHER CLASS D FIRE EXT POWDER

Unusual Fire/Explosion Hazard:NO UNUSUAL FIRE/EXPLO H AZ ARE ASSOCIATED WITH THESE MATLS.

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

Spill Release Procedures:SOLID FORM POSE NO SPECIAL CLEANUP PROBLEMS.POWDER/DUST FORM CLEANUP SHOULD BE CONDUCTED W/VAC SYS UTILIZING HI EFFICIENCY PARTICU AIR FILTR SYS.CAUT SHOULD BE TAKEN TO MIN AIRBORNE GENERATION OF POWD ER/DUST.AVOID CONTAM OF AIR/WATER.PROPERLY LABEL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =  
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Handling and Storage Precautions:HNDL ACCORDING TO SIZE/SHAPE/QUANT INVOLVE-HOLST,CRANE,ETC.POWDER MOVE/TRANSPO TO MIN SPILL/RELEASE-STORE IN DRY AREA,NOT ADJAC TO MINEARAL ACIDS/IGN

Other Precautions:EXPO TO ELEMENTS CAN BE BEST DERMINED BY HAVING AIR SMPLS TAKE IN EMPLOYEE BREATH ZONE/WORK AREA/DEPT.LUNG FUNCITON TEST/CHEST X-RAYS/ROUTINE PHYS EXAMS MAY BE USEFUL TO DETERMINE DUST/FUME EXPO EFFEC TS. CONTAINS SARA TITLE III CHEMS.

===== Expo  
sure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROV RESP AS SPEC BY INDUST HYG/QUAL SAF PROF.LUNG FUNCTION TESTS ARE RECOMMENDED FOR USERS OF NEGATIVE PRESSURE DEVICES.USE FUME RESP OR AIR SUPPLIED RESP WHERE LOC EXHU/VENTI DOENT KEEP EXPO BEL OSHA LIMITS FOR AIR CONTAM.

Ventilation:LOCAL EXHAUST VENTILATION SHOULD BE USED TO CONTROL EXPOSURE TO AIRBORNE DUST/FUME WHENEVER POSSIBLE.

Protective Gloves:GLOVES-PREVENT CUT/ABRASIONS

Eye Protecti

on:SAF GLASSES

Other Protective Equipment:PROTECTIVE CLOTH SUCH AS UNIFORMS,DISPO  
COVERALL,SAF SHOES,ETC DURNING HNDLG OPERATIONS AS APPROP TO  
CIRCUMST OF EXPO.

Work Hygienic Practices:DANGER!!INHAL OF DUST/FUME MAY CAUSE SERIOUS  
LUNG INJURY,SKIN/EYE/MUC MEMBRANE IRRIT MAY OCCUR.

Supplemental Safety and Health

IGN/SYMTP:CHILLS,FUME FEVER,ASTHMA-LIKE SYMPT.CHRONIC:SHORT BREATH,PERM  
DIABILITY DUE TO LOSS OF LUNG FUNCTION,BIROSIS,EFFECTS ON HEART,CNS  
DEPRESS,NASAL/BRONCHIAL/LUNG

CANC,GI DISORDERS. DISPO:EMISIO

NS,SPILL,RLEASE TO ENVIRO SHOULD BE CNTRL IMMED.IF SUCH POT EXISTS  
ADVISABLE TO DVLP EMERG SPILL RESPONSE PLAN.

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

HCC:N1

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:M.P/F.P Text:2375F,-1337

Decomp Temp:Decomp Text:NP

Vapor Pres:NA

Vapor Density:NA

Spec Gravity:0.324= DENS

pH:NP

Viscosity:NP

Solubility in Water:NONE

Appearance and Odor:SOLID-SILVER GRAY COLOR, NO ODOR

Percent Volatiles by Volum

e:NONE

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT W/MINERAL ACIDS & OXIDIZING AGENTS WHICH MAY GENERATE  
HYDROGEN GAS:EVOLUTION OF HYDROGEN MAY BE EXPLO HAZ.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:VAR ELEMENTAL METALS/METAL OXIDES MAY  
BE GENRATED FROM WELD/CUT/GRIND/MELT/GROSS HNDLG OPERATINS.

===== Disposal Considera

tions =====

Waste Disposal Methods:DISPO OF WASTE MATL IAW STATE/FED REGS.SPEC  
LABEL/PKG/STORAGE/TRANSP/DISPO PROCEDURES COTACT ENVIRO ENGINEER  
OR CONSULTANT FAMILIAR W/WASTE DISPO REGS.SOLID FORM NO SPEC ENVIRO  
PROBLEMS.METAL POWDER/ DUST SIGNIF IMPACE ON AIR/H2O  
QUAL.AIRBORNE(SUPPL)

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