

HAYNES INTERNATIONAL INC SUB OF CABOT CORP -- WELDING CONSUMABLES H1072-2 --  
3439-00-008-5067

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

Product ID:WELDING CONSUMABLES H1072-2

MSDS Date:09/01/1993

FSC:3439

NIIN:00-008-5067

MSDS Number: CDYDK

=== 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

Inf

o Phone Num:317-456-6625

Emergency Phone Num:317-456-6894

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:NICKEL (SARA 313) (CERCLA)

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9596

Ingred Name:COBALT (SARA 313)  
CAS:7440-48-4  
RTECS #:GF8750000  
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  
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:MOLYBDENUM  
CAS:7439-98-7  
RTECS #:QA4680000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 PPM.  
ACGIH TLV:10 PPM.

Ingred Name:TUNGSTEN  
CAS:7440-33-7  
RTECS #:  
YO7175000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3  
ACGIH TLV:5 MG/M3

Ingred Name:IRON  
CAS:7439-89-6  
RTECS #:NO4565500  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICON  
CAS:7440-21-3  
RTECS #:VW0400000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9596

Ingred Name:MANGANESE (SARA 313)  
CAS:7439-96-5  
RTECS #:OO9275000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C, 5 MG/M3 (FUME)  
ACGIH TLV:0.2 MG/M3; 9596

Ingred Name:ALUMINUM (SARA 313)  
CAS:7429-

90-5  
RTECS #:BD0330000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 DUST  
ACGIH TLV:10 MG/M3 DUST; 9596

Ingred Name:TITANIUM  
CAS:7440-32-6  
RTECS #:XR1700000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:COPPER (SARA 313) (CERCLA)  
CAS:7440-50-8  
RTECS #:GL5325000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1MG/M3 FUME/1 DUST  
ACGIH TLV:0.2 MG/M3 FUME; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:BORON  
CAS:7440-42-8  
RTECS #:ED7350000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL  
:10 MG B2O3/M3  
ACGIH TLV:10 MG B2O3/M3

Ingred Name:INGREDS ABOVE VARIES W/ALLOY  
Fraction by Wt: NA  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:SKIN:MAY CAUSE  
DERMATITIS,ALLERGIES.INGEST:VIA DIRTY HAND CONTACT  
W/FOOD/MOUTH.ELECTRIC ARC

:FUMES/GAS DANGEROUS TO HEALTH.SHORT-TERM EXPO MAY RESULT IN DISCOMFORT(DIZZ,NAU,DRYNESS,IRRIT NOSE/THROAT/EYES).ARC RAYS INJURE EYE,BURN SKIN.ELECTRIC SHOCK CAN KILL.  
Explanation of Carcinogenicity:PER MSDS:WELD W/PROD PRODUCES CHEM KNOWN TO SATE OF CA TO CAUSE CANC.CHROMIUNUM,NICKEL,WELD FUMES,COBALT.  
Effects of Overexposure:DERMATITIS, ALLERGIES, DISCOMFORT, DIZZINESS, NAUSEA, DRYNESS, IRRIT NOSE/THROAT/EYES. EYE INJURY, BURNS SKIN, ELECTRIC SHOCK CAN KILL.

Medical Cond A  
ggravated by Exposure:AGGRAVATION OF PRE-EXISTING RESPIRATORY ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.SOME STUDIES HAVE SHOWN HIGHER LEVEL OF LUNG RELATED PROBLEMS AMONG OLDER WORKERS WHO SMOKE THAN THOSE WHO DONT.

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First Aid Measures  
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First Aid:REMOVE FROM WELD AREA.ADMIN 1ST AID/GET MED ATTN.UNCONSC GIVE OXY;NOT BREATH BEGIN RESUSC IMMED.AMERC RED CROSS 1ST AID TECHNIQUES.

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Fire Fighting Measures  
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Flash Point:NA  
Autoignition Temp:Autoignition Temp Text:NP  
Lower Limits:NA  
Upper Limits:NA  
Extinguishing Media:NOT APPLICABLE. HMIS:USE APPROPRIATE FIRE EXTINGUISHER FOR SURROUNDING FIRE/MATLS.  
Unusual Fire/Explosion Hazard:NOT APPLICABLE. AS SHIPPED PROD NON-FLAMM/NON-EXPLO.WELD ARC/SPARKS CAN IGN COMBUST/INITIATE FIRES/EXPLO.READ/UNDERSTANDE ANSI Z49.1/NFPA 51B BEF USING PRODUCTS

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Accidental Release Measures  
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Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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Handling and Storage Precautions:MAJ OF PROBLEMS/HAZ RESULT FROM PHYS ACCIDENTS(ELECTRIC SHOCK,RESTRICTED VISIBILI/MOBI/PHYS STRAINS/RADIATION BURNS/HEAT BURNS.READ/UNDERSTAND LABELS.  
Other Precautions:ONE RECOMMENDED WAY TO DETERMINE FUME/GAS COMPO/QUANT-TAKE AIR SPL FROM INSIDE WELDER HELMET/WORKER BREATH ZONE.SEE ANSI/AWS F1.1.AWALYS USE EXHAUST VENTILATION.MON

ITOR GAS

BUILDUP;REMOVE/REDUCE EXCES S TO SAF LEVELS W/SYPPL SYS/GEN VENTI.

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

Respiratory Protection:BE SURE TO USE FUME RESP/AIR SUPPLIED RESP WHEN WELD IN CONFINED SPACES/LOC EXHAUST/VENTI DOESNT KEEP EXPO BELOW PEL/TLV LIMITS.

Ventilation:USE ENOUGH VENTI/LOC EXHAU @ARC/BOTH-KEEP FUME/GAS FRM WORKER BREATH ZONE/GEN AREA.TRAIN WORKER KEEP HEAT OUT OF WELD FM

Protective Gloves:WELDER GLOVES,ARMS PROTECTION.

Eye

Protection:WELDER HELMET,FCSHIELD W/PROT LENSES.

Other Protective Equipment:RULE:START W/LENS SHADE THATS TOO DAKT TO SEE WELD ZONE;GO LIGHTER SHADE FOR SUFF VIEWING.SEE Z49.1.PROT CLOTH.APRON.

Work Hygienic Practices:USE INDUSTRIAL HYGIENE AIR MONITORING TO ENSURE COMPLIANCE W/RECOMMENDED EXPO LIMITS.INSULATE FROM ELECTRIC SHOCK.

Supplemental Safety and Health

DECOMPO:USED/WELD PROD USED/METAL COAT WELDED/#OF WLEDERS/VOL OF WORKSPACE/WELDER HEAD POSITION/ATM CONTAMIN.COMPLEX

COMBINATIONS,CO,CO2.OZONE/OXIDES OF NITROGEN BY ARC RADIATION.

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

HCC:N1

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:M.P/F.P Text:NP

Decomp Temp:Decomp Text:NP

Vapor Pres:NA

Vapor Density:NA

Spec Gravity:7-9

pH:NP

Viscosity:NP

Evaporation Rate & Reference:NA

Solubility in Water:INSOLBULE

Appearance and Odor:BARE WIRE,STRAING LENGTH/COIL WIRES,METAL CORE RODS COATED W/FLUX.

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===== Stability and Reactivity Data =

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Stability Indicator/Materials to Avoid: YES  
NONE SPECIFIED BY MANUFACTURER.  
Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.  
Hazardous Decomposition Products: DECOMPO PORD CANT BE EASILY  
CLASSIFIED.COMPO/QUANT FUMES/GAS DEPEND: BASE METAL BEING WELD/WELD  
PROCESS/PROCEDURE (SUPPL)

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

Waste Disposal Methods: DISPOSE OF FUME/FLUX/WELD GRIND RESIDUES FROM  
WORKAREA/FILT IAW LOC/STATE/FED REGS.MAY  
CONTAIN SARA SEC 313 TITLE  
III CHEMS.

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