

HAYNES INTERNATIONAL INC SUB OF CABOT CORP -- ALLOY W 2690,MSDS IDENTIFICATION
NUMBER H30 -- 3439-00-166-9584

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Product Identification
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Product ID:ALLOY W 2690,MSDS IDENTIFICATION NUMBER H30

MSDS Date:02/01/1989

FSC:3439

NIIN:00-166-9584

MSDS Number: BLXFS

=== 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

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

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

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Composition/Information on Ingredients
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Ingred Name:COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750000

Fraction by Wt: 2.5% MAX

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r REC Limits:NONE SPECIFIED
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: 5.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:IRON OXIDE
CAS:1309-37-1
RTECS #:NO7400000
Fraction by Wt: 6.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG/M3 (FE)
ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
F
raction by Wt: 24%
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 1.0% MAX
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 1.0% MAX
Other REC Limits:NONE SPECIFIED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5

950000
Fraction by Wt: 63%
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:VANADIUM (SARA III)
CAS:7440-62-2
RTECS #:YW1355000
Fraction by Wt: 0.6% MAX
Other REC Limits:NONE SPECIFIED
OSHA PEL:C,0.5 MG V2O5/M3 RD
ACGIH TLV:0.05 MG V205/M3;9293

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

LD50 LC50 Mixture:TLV FOR WELDING FUMES IS 5 MG/M3
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IA
RC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE: FUMES AND GASES CAN CAUSE EYES
AND UPPER RESPIRATORY SYSTEM IRRITATION, AND CENTRAL NERVOUS SYSTEM
EFFECTS. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN
KILL. NOISE CAN DAMAGE HEA RING. BRONCHITIS, FUME FEVER. CHRONIC:
NEUROLOGICAL DAMAGE, LUNG FIBROSIS, PNEUMOCONIOSIS.
Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE LISTED UNDER
IARC AND NTP.
Effects of Overexposure:SHORT TERM EXPOSURE: NAUSEA, FEV
ER, DIZZINESS,
DRYNESS, IRRITATION OF EYES, NOSE AND THROAT, SKIN SENSITIVITY.
ACUTE EXPOSURE: SAME SYMPTOMS TO HIGHER DEGREE AS WELL AS WATERY
EYES, HEADACHE, BREATHIN G DIFFICULTY, FREQUENT COUGHING, CHEST
PAINS.
Medical Cond Aggravated by Exposure:AGGRAVATION OF EXISTING RESPIRATORY
OR ALLERGIC CONDITIONS.HIGHER LEVEL OF LUNG RELATED PROBLEMS AMONG
SMOKERS.

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

First Aid:INHALATION: REMOVE FROM EXPOSURE

. IF BREATHING IS DIFFICULT,
GIVE OXYGEN. IF NOT BREATHING, GIVE CPR. IF NO DETECTABLE PULSE,
GIVE HEART MASSAGE. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT
LEAST 15 MINUTES. SKIN: WASH WITH SOAP AND WATER. INGESTION: SEEK
MEDICAL ATTENTION.

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

Flash Point:NONE

Lower Limits:NONE

Upper Limits:NONE

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE
FOR SURROUNDING FIRE.

Fire Fighting Pro

cedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED
CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE
HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE
AND PLACE IN APPROPRIATE DISPOSAL CONTAINER. AVOID INHALATION AND
SKIN EXPOSURE.

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

Handling and Storage Precautions:STORE IN DRY AREA. ELECTRODES EXPOSED
TO MOISTURE MAY EXPLODE VIOLENTLY IF USED. DRY MOIST RODS BY BAKING
AT 300F FOR TEN HOURS.

Other Precautions:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES.
MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES. AVOID ELECTRICAL SHOCK
BY MAINTAINING DRY WORK AREA.

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

Respiratory Protec

tion:FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN
CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW
TLV.

Ventilation:LOCAL EXHAUST TO KEEP BELOW TLV.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:SUBSTANTIAL DARK CLOTH, ARM PROTECTOR,
APRON, HAT AND SHOULDER PROTECTION. SAFETY SHOES.

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING, SMOKING OR
USING SANITARY FACILITIES.

Supplemental

Safety and Health
AIR SAMPLING TO DETERMINE CORRECTIVE MEASURES.

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

HCC:N1
Melt/Freeze Pt:M.P/F.P Text:2400F,1316C
Decomp Temp:Decomp Text:N/RNOWN
Spec Gravity:9
Solubility in Water:NONE
Appearance and Odor:WELDING ROD. SOLID-SILVER GRAY COLOR. NO ODOR.
Percent Volatiles by Volume:NONE

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

Stability Indicator/Materials to Avoid:YES
AVOID CONTACT WITH MINERAL ACID
S AND STRONG OXIDIZING AGENTS
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES
OF IGNITION
Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES FROM
ELECTRODE AND BASE METAL, CARBON MONOXIDE, CARBON DIOXIDE, OZONE,
NITROGEN OXIDES.

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

Waste Disposal Methods:CONSULT WITH YOUR LOCAL ENVIRONMENTAL OFFICER.
DISPOSE OF FUMES, FLUX OR WELD GRINDING RESIDUE FROM THE WORK AREA
OR FROM
FILTERS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
ENVIRONMENTAL REGULATIONS.

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