View NSN Online: https://aerobasegroup.es/nsn/3439-00-171-1340

HAYNES INTERNATIONAL INC., SUBS OF CABOT CORP. -- HIGH PERFORMANCE HEAT RESISTANCE ALLOY 1311 -- 3439-00-171-1340

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

Product ID:HIGH PERFORMANCE HEAT RESISTANCE ALLOY 1311

MSDS Date:03/01/1987

FSC:3439

NIIN:00-171-1340

MSDS Number: BHBGB === Responsible Party ===

Company Name: HAYNES INTERNATIONAL INC., SUBS OF CABOT CORP.

Address:1020 WEST PARK AVE.

Box:9013 City:KOKO

MO

State:IN

ZIP:46902-9013

Country:US

Info Phone Num:317-456-6000

Emergency Phone Num:800-424-9300(CHEMTREC)/317-456-6000

Preparer's Name: SAFETY DEPARTMENT

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

Company Name: SOONER SUPPLIES, INC. 405-273-3370

CAGE:1L038

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

======

Ingred Name: COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750000 Fraction by Wt: 54%

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: 25.5% 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 CAS:7439-89-6

RTECS #:NO4565500

by Wt: 1.0% MAX

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: 10.5%

Other REC Limits: NOT ESTABLL

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000 Fraction by Wt: 1.0% MAX 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: 7.5%

OSHA PEL:5 MG/M3/ 10 STEL ACGIH TLV:5 MG/M3/10 STEL;9192

======

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:HEALTH HAZARD TO LUNGS,SKIN AND CENTRAL NERVOUS SYSTEM.

Explanation of Carcinogenicity: CHROME IS A CONFIRMED CARCINOGEN BY NTP, IARC. NICKEL IS A CONFIRMED CARCINOGEN BY IARC AND AN ANTICIPATED CARC. BY NTP.

Effects of Overexposure:ACUTE:MECHANICAL INJURY TO THE EYE,SKIN IRRI

TATION,ALLERGIC SKIN REACTION,DERMATITIS.RESPIRATORY IRRITATION,COUGH,BRONCHITIS,CHILLS,FUME FEVER,AND ASTHMA-LIKE S HEART.CENTRAL NERVOUS SYSTEM DEPRESSION AND LUNG CANCER.

Medical Cond Aggravated by Exposure:AGGRAVATION OF EXISTING RESPIRATORY OR ALLERGIC CONDITIONS.IF PRIOR DAMAGE HAS OCCURRED TO THE NEUROLOGIC,CIRCULATORY,HEMATOLOGIC OR RENAL SYSTEMS,MEDICALLY EVAULATE THESE INDIVIDUALS FOR EXPOSURE.

NOT BREATHING, GIVE CPR/OXYGEN. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY AMERICAN RED CROSS.
======================================
Extinguishing Media:AS APPROPIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:IF MATERIAL IS REDUCED TO POWDER,USE CAUTION TO PREVENT FIRE OR EXPLOSION.TO EXTINGUISH A METAL POWDER FIRE USE DRY SAND,DRY GRAPHITE OR OTHER CLASS "D" EXTING. Jnusua Fire/Explosion Hazard:NONE.
Accidental Release Measures
Spill Release Procedures:IF MATERIAL IS IN DUST FORM,USE VACUUM CLEANER WITH HIGH EFFICIENCY AIR FILTRATION SYSTEM.MINIMIZE DUST GENERATION.
======================================
Handling and Storage Precautions:STORE IN DRY AREA.DO NOT STORE NEAR ACIDS.FINE METAL POWDERS SHOULD BE KEPT AWAY FROM FLAMES AND IGNITION SOURCES. Other Precautions:TRAIN W ELDER 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 Protection:FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR. /entilation: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 SH OULDER PROTECTION. Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING,SMOKING OR USING SANITARY FACILITIES. Supplemental Safety and Health NONE.
Physical/Chemical Properties
HCC:N1 Melt/Freeze Pt:M.P/F.P Text:2425F,1329C Solubility in Water:NONE. Appearance and Odor:SOLID ROD 0.062 IN DIA. BY 36 IN LONG.SILVER GRAY COLOR.NO ODOR.
Stability Indicator/Materials to Avoid:
Tability in a sately materials to 7 troid.

First Aid:REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION. IF

YES

MINERAL ACIDS AND OXIDIZING AGENTS WHICH MAY GENERATE EXPLOSIVE HYDROGEN GAS.

Hazardous Decomposition Products: VARIOUS ELEMENTAL METALS AND METAL 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.PRI OR TO DISPOSAL CONSIDER IF M **TRL**

HAS RECOVERY VALUE

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their

particular situation.