View NSN Online: https://aerobasegroup.com/nsn/3439-01-149-0529

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 Emerge ncy Phone Num:317-456-6894/800-424-9300(CHEMTREC) CAGE:80357 === 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

Ingr

ed Name:COBALT (SARA III) CAS:7440-48-4 RTECS #:GF8750000 Fraction 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: 0.0 7% Other REC Limits:NONE RECOMMENDED

Ingred Name:MANGANESE (SARA 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

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 THROAT.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:GET MEDICAL CARE IF NEEDED.EYES:FLUSH WITH WATER FOR 15 MINUTES HOLDING EYELIDS OPEN.SKIN:WASH THOROUGHLY WITH SOAP & WAT

ER.INHALATION:REMOVE TO FRESH AIR.PROVIDE CPR IF NEEDED.INGESTION:CALL A DOCTOR .

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 Fi

re/Explosion Hazard:NONE. IN CONTACT WITH ACIDS, HYDROGEN GAS WILL BE FORMED WHICH IS FLAMMABLE AND EXPLOSIVE.

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 Precautions: STORAGE-KEEP MATERIAL I N 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. 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 KE **EP 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. HCC:N1 Solubility in Water: INSOLUBLE Appearance and Odor:SOLID SILVER GREY COLOR - NO ODOR Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS AND ACIDS Stability Condition to Avoid:FIRE

Hazardous Decomposition Products:METAL OX

IDES. DECOMPOSITION PRODUCTS INCLUDE THOSE ORIGINIATING FROM INGREDIENTS + THOSE FROM THE BASE METAL & COATING.

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 AN D LOCAL REGULATIONS

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.