View NSN Online: https://aerobasegroup.com/nsn/3439-00-235-8202

MILLER THERMAL TECHNOLOGIES, INC., ALLOYS INTL. DIV. -- AI-1002-B WELDING POWDER --

3439-00-235-8202

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

Product ID:AI-1002-B WELDING POWDER

MSDS Date:12/21/1988

FSC:3439

NIIN:00-235-8202

MSDS Number: BDLQC === Responsible Party ===

Company Name: MILLER THERMAL TECHNOLOGIES, INC., ALLOYS INTL. DIV.

Address:1901 ELLIS SCHOOL ROAD

City:BAYTOWN

State:TX

ZIP:77521-1215

Cou ntry:US

Info Phone Num:713-426-5535

Emergency Phone Num:713-426-5535

CAGE:06677

=== Contractor Identification ===

Company Name: MILLER THERMAL TECHNOLOGIES, INC., ALLOYS INTL. DIV.

Address:1901 ELLIS SCHOOL ROAD

Box:City:BAYTOWN

State:TX

ZIP:77521-1215 Country:US

Phone:713-426-5535

CAGE:06677

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

Ingred Name: TUNGSTEN CARBIDE

CAS:12070-12-1 RTECS #:YO7250000 Fraction by Wt: 89%

Other REC Limits: NONE SPECIFIED

OSHA PEL:5 MG W/M3

ACGIH

Ingred Name:COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750000 Fraction by Wt: 11%

Other REC Limits: NONE SPECIFIED

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

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

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

Health Hazards Acute and Chronic:WELDING CONSUMABLES ARE NON-REACTIVE, NON-FLAMMABLE, NON-EXPLOSIVE, AND ESSENTIALLY NON-HAZARDOU S UNTIL

- USED IN A WELDING OPERATION. WELDING HAZARDS INCLUDE INHALATION OF FUMES, THERMAL BURNS, RADIAT ION BURNS AND ELECTRIC SHOCK.
- Explanation of Carcinogenicity: THE PRODUCT CONTAINS NO INGREDIENT THAT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.
- Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY CAUSE METAL FUME FEVER RESULTING IN DIZZINESS, NAUSEA, FEVER AND/OR IRRITATION OF NOSE, THROAT AND EYES. TOXIC GASES CAN BE FATAL. CHRONIC EXPOSURE MAY LEAD TO TRANSIEN
- T OR PERMINENT LUNG DAMAGE. SKIN CONTACTMEY CAUSE DERMITITIS IN SOME SENSITIVE PEOPLE.
- Medical Cond Aggravated by Exposure:PRE-EXISTING RESPIRATORY DISFUNCTION MAY BE AGGRAVATED BY FUME INHALATION.

- First Aid:FUME INHALATION:REMOVE FROM EXPOSURE. GET MEDICAL ATTENTION. THERMAL BURN:USE NORMAL FIRST AID. ULTRAVIOLET EXPOSURE:SKIN;TREAT AS SUNBURN. EYE; GET MEDICAL ATTENTION. ELECTRIC SHOCK:TURN OFF POWER.
- R EMOVE AND RESTORE BREATHING IF NECESSARY. GET MEDICAL ATTENTION. INGESTION OF POWDER:INDUCE VOMITING, GET MEDICAL ATTENTION.

Flash Point: NON-FLAMMABLE

Extinguishing Media:PRODUCT IS PRACTICALLY NON- FLAMMABLE. USE DRY POWDER, WATER, CARBON DIOXIDE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY

CONTAINERS EXPOSED TO FIRE. Unusual Fire/Explosion Hazard: THIS POWDER MAY PRESENT A FIRE HAZARD UNDER FAVORABLE CONDITIONS AND A STRONG IGNITION SOURCE. ======== Accidental Release Measures ============ Spill Release Procedures: CLEAN UP ANY DUST OR WASTE RESIDUES BY PROCEDURES WHICH AVOID DUST. PLACE IN APPROVED CONTAINERS. AVOID INHALATION AND SKIN EXPOSURE. Neutralizing Agent: NOT RELEVANT ============= Handling and Storage ================ dling and Storage Precautions: NO SPECIAL HANDLING IS REQUIRED. STORE AS DIRECTED BY MFR. Other Precautions: SEE ANSI STANDARD Z49.1-1983. READ "SAFETY IN WELDING AND CUTTING" FROM AMERICAN WELDING ASSOCIATION, 550 N.W. JEUNE RD., MIAMI, FL 33135. ====== Exposure Controls/Personal Protection ======== Respiratory Protection: USE NIOSH/MSHA WELD FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST O R GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW PEL/TLV. Ventilation: USE LOCAL VENTILATION WHEN CUTTING, GRINDING OR WELDING TO KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE. Protective Gloves:WELDERS LEATHER GLOVES Eye Protection: OSHA APPR.GOGGLES/FACE SH'LD W/ANSI LENS Other Protective Equipment: FLAME RETARDANT CLOTHING WHEN CUTTING. GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING. Work Hygienic Practices: USE GOOD INDUSTRIAL HY GIENE. WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health

NOTE: MFR'S LABEL IS GENERIC COVERING SEVERAL MATERIALS. THIS MATERIAL POSES NO CANCER HAZARD. WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DE PENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED.

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

HCC:N1

Boiling Pt:B.P. Text:5200F,2871C

Melt/Freeze Pt:M.P/F.P Text:2700F,1482C

Spec Gravity:POWDER

pH:NONE

Solubility in Water: NEGLIGIBLE

Appearance and Odor: GRAY/BLACK POWDER, NO ODOR

Percent Volatiles by Volume: NONE

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

Stability Indicator/Materials to Avoid:YES
STRONG ACIDS AND/OR STRONG OXIDIZING AGENTS
Stability Condition to Avoid:NONE
Hazardous Decomposition Products:WELDING AND CUTTING OPERATION MAY

PRODUCE OXIDES OF THE METALS.

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

Waste Disposal Methods:DISPOSE I/A/W FEDERAL, STATE & LOCAL REGULATIONS. RECLAIM METALS IF APPROPRIATE.

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 disclaim

s 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.