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COMBUSTION ENGINEERING, INC -- SHIELDED METAL ARC WELDING ELECTRODES 3439-00-018-1970

Product ID:SHIELDED METAL ARC WELDING ELECTRODES MSDS Date:02/22/1989 FSC:3439 NIIN:00-018-1970 Status Code:A **MSDS Number: CKMQC** === Responsible Party === Company Name: COMBUSTION ENGINEERING, INC Address:911 WEST MAIN STREET City:CHATTANOOGA State:TN ZIP:37402 Country:US Inf o Phone Num:423-752-2543 Emergency Phone Num:423-752-2543 CAGE:TO682 === Contractor Identification === **Company Name: COMBUSTION ENGINEERING INC** Address:1201 RIVERFRONT PKWY BLD 3 Box:City:CHATTANOOGA State:TN ZIP:37402-2108 Country:US Phone:615-752-2869 CAGE:90454 Company Name: COMBUSTION ENGINEERING, INC Address:911 WEST MAIN STREET Box:City:CHATTANOOGA State:TN ZIP:37402 Country:US Phone: 423-752-2543 CAGE:TO682

Ingred Name:I

RON CAS:7439-89-6 RTECS #:NO4565500

Ingred Name:MANGANESE CAS:7439-96-5 RTECS #:OO9275000 OSHA PEL:C5 MG/M3 ACGIH TLV:5 MG/M3

Ingred Name:TANTALUM CAS:7440-25-7 RTECS #:WW5505000 OSHA PEL:5 MG/M3 ACGIH TLV:5 MG/M3

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 ACGIH TLV:10 MG/M3

Ingred Name:CHROMIUM CAS:7440-47-3 RTECS #:GB4200000 OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty :1 LB

Ingred Name:NICKEL CAS:7440-02-0 RTECS #:QR5950000 OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

Ingred Name:FLUORSPAR CAS:7789-75-5 RTECS #:EW1760000

Ingred Name:TITANIUM OXIDE CAS:13463-67-7 RTECS #:XR2275000 OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:SODIUM SILICATE CAS:1344-09-8

Ingred Name: POTASSIUM SILICATE CAS: 1312-76-1

ARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE-OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, OR DRYNESS OR IRRITATION OF NOSE, THROAT OR EYES. CHROMIUM(CR03)-INHALATION OF FUME WITH CHROMIUM (VI) COMPOUNDS CAN CAUSE IRRITATION OR THE RESPIRATORY SYSTEM, DAMAGE TO THE LUNGS, AND ASTHMA LIKE SYMPTOMS. SWALLOWING CHROMIUM (VI) SALTS CAN CAUSE SEVERE INJURY OR DEATH. DUSTS ON THE SKIN CAN FORM ULCERS. EYE S MAY BE BURNED BY CHR OMIUM

(VI) COMPOUNDS. ALLERGIC REACTIONS LIKELY IN SOME PEOPLE FROM CHROMIUM COMPOUNDS. NICKEL-NICKEL OXIDE (NIO)-METALLIC TASTE, NAUSEA, TIGHTNESS IN CHEST, FEVER, ALLERGIC REAC TIONS' REMOVE FROM OVEREXPOSURE.

Explanation of Carcinogenicity:CONTAINS CHROMIUM AND NICKEL COMPOUNDS. Effects of Overexposure:METALLIC TASTE, NAUSEA, TIGHTNESS IN CHEST, FEVER.ALLERGIC REACTIONS.

Medical Cond Aggravated by Exposure:AGGRAVATION OF PRE-EXIXTING RESPIRATORY OR ALLERGY CONDITIONS M

AY OCCUR IN SOME WORKERS. SOME STUDIES HAME SHOWN A HIGHER LEVEL OF LUNG RELATED PROBLEMS AMONG OLDER WELDERS WHO SMOKED THAN THOSE WHO DI

First Aid:REMOVE FROM EXPOSURE AND CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. IN CASE OF ELECTRICAL SHOC K, DISCONNECT AND TURN OFF POWER. IF NOT BREATHING, BEGIN

ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF NO DETECTABLE PULSE, BEGIN EXTERNAL HEART MASSAGE. IMMEDIATELY CALL A PHYSICIAN. IN C ASE OF ARC BURN OR IRRITATION TO EYES OR SKIN, CALL A PHYSICIAN.

Extinguishing Media:WELDING ARCS AND SPARKS CAN IGNITE COMPUSTIBLES AND FLAMMABLE PRODUCTS. SEE AMERICAN NATIONAL STANDARD Z49.1 Unusual Fire/Explosion Hazard:WELDING CONSUMABLES APPLICABLE TO THIS SHEET AS SHIPPED ARE NON-REACTIVE, NON-FLAMMABLE, NON-EXPLOSIVE AND ESSENTIALLY NON-HAZARDOUS UNTIL WELDED.

Other Precautions: READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THE PRODUCT. (SEE AMERICAN NATIONAL STANDARD Z49.I. SAFETY IN WELDING AND CUTTING PUBLESHED BY AMERICAN WELDING SOCIE TY, P.O. BOX 351040, MIAMI, FL 33135 AND OSHA PUBLICATION 2206 (29CFR1910), U.S. GO VERNMENT PRINTING OFFICE, WASHINGTON, Respiratory Protection: USE NIOSH APPROVED OR EQUIVALENT FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV. Ventilation: USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH, TO KEEP THE FUMES AND GASES BELOW TLV'S IN THE WORKER'S BREATHING ZONE & GENERAL AREA. Protective GI oves:WEAR HAND PROTECTION TO PREVENT INJURY.WELDER'S GLOVES Eye Protection: MINIMUM A PROTECTIVE FACE SHIELD WITH FILTER LENS, FLASH GOGGLES Other Protective Equipment: WEAR HEAD, & BODY PROTECTION WHECH HELP TO PREVENT INJURY FROM RADIATION, SPARKS, & ELECTRICAL SHOCK. SEE ANSI Z49.. ARM PROTECTORS, APRONS, HATS, SHOULDER PROTECTION, AS WELL AS DARK SUBSTANTIAL CLOTHING Work Hygienic Practices: MAINTAIN EXPOSURE BELOW THE PEL/TLV. USE INDUSTRIAL HYGIENE MONITORING TO ENSURE T HAT OUR USE OF THIS MATERIAL DOES NOT CREATE EXPOSURES WHICH EXCEED PEL/TLV. ALWAYS USE EXHAUST VENTILATION. Supplemental Safety and Health

HCC:N1

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:WELDING FUMES AND GASES CANNOT BE CLASSIFIED SIMPLY. THE COMPOSITION AND QUANTITY OF BOTH ARE DEPENDENT UPON THE METAL B

EING WELDED, THE PROCESS, PROCEDURES, AND ELECTRODES USED. OTHER CONDITIONS WHICH

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.

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ided 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.