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JWHARRIS NC

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P. 003

NICKEL 99 FOR TIGA-NICKELSECTION 5REACTIVITY DATA

CONT'D

THOSE ORIGINATING FROM VOLATILIZATION, REACTION, OR OXIDATION OF MATERIALS IN SECTION 2, PLUS THOSE FROM BASE METAL AND COATING, ETC., AS NOTED ABOVE. REASONABLY EXPECTED FUME CONSTITUENTS OF PRODUCT COULD INCLUDE FLUORIDES AND COMPLEX OXIDES AND COMPOUNDS OF ALL THE INGREDIENTS LISTED IN SECTION 2. GASEOUS REACTION IN PRODUCTS MAY INCLUDE CARBON MONOXIDE AND CARBON DIOXIDE. OZONE AND NITROGEN OXIDES MAY BE FORMED BY THE RADIATION FROM ARC, IN ADDITION TO SHIELDING GASES LIKE ARGON AND HELIUM WHEN EMPLOYED. ONE RECOMMENDED WAY TO DETERMINE COMPOSITION AND QUANTITY OF FUMES AND GASES IS TO TAKE AIR SAMPLE FROM INSIDE WELDER'S HELMET IF WORN OR IN BREATHING ZONE. SEE AWS F1.1 AND AWS F1.2 -1986, AVAILABLE FROM THE AMERICAN WELDING SOCIETY. SEE AWS PUBLICATION: "FUMES AND GASES IN THE WELDING ENVIRONMENT".

SECTION 6HEALTH HAZARD DATA

ROUTES OF ENTRY..... INHALATION, SKIN AND INGESTION
 HEALTH HAZARDS..... ELECTRIC ARC-WELDING MAY CREATE FUMES AND GASSES CAN BE DANGEROUS. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.
 CARCINOGENICITY..... THE STATE OF CALIFORNIA REQUIRES THE FOLLOWING INFORMATION: WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.
 SIGNS & SYMPTOMS OF EXPOSURE..... SEE BELOW.
 MEDICAL CONDITIONS FROM EXPOSURE... SHORT TERM TO WELDING FUMES-DIZZINESS, NAUSEA, DRYNESS & IRRITATION OF NOSE, EYES THROAT, CHEST TIGHTNESS, FEVER, ALLERGIC REACTION. LONG TERM-SIBEROSIS, BELIEVED TO AFFECT PULMONARY FUNCTION.
 EMERGENCY & FIRST AID..... NICKEL AND CHROMIUM COMPOUNDS ARE REQUIRED BY OSHA TO BE CONSIDERED CARCINOGENIC. REMOVE TO FRESH AIR, OBTAIN MEDICAL ATTENTION. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY AM. RED CROSS.
 ADDITIONAL INFORMATION..... NA

SECTION 7PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL AND LEAK PROCEDURES..... NA
 WASTE AND DISPOSAL METHOD..... PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT RESIDUE, DISPOSABLE CONTAINER OR LINER IN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
 HANDLING AND STORING PRECAUTIONS... USE EXHAUST SYSTEM. MAKE SURE INHALED AIR DOES NOT CONTAIN FUME CONSTITUENTS ABOVE PERMISSIBLE EXPOSURE LEVELS. OTHER PRECAUTIONS FOR ADDITIONAL SAFETY INFORMATION ON WELDING AND CUTTING, SEE AMERICAN STANDARD Z49.1-1983, SAFETY IN WELDING AND CUTTING, AND THE WELDING HANDBOOK, VOL. 1, CHAPTER 9, SAFE PRACTICES IN WELDING AND CUTTING, BOTH AVAILABLE FROM AM WELDING SOCIETY INC., 550 N.W. LEJUNE RD., PO BOX 351046, MIAMI, FL 33136. PHONE 305-443-9353.
 OTHER PRECAUTIONS..... NA

SECTION 8CONTROL MEASURES

RESPIRATORY MEASURES..... USE RESPIRABLE FUME RESPIRATORY OR AIR SUPPLIED RESPIRATOR WHEN IN CONFINED SPACE OR LOCAL EXHAUST DOES NOT KEEP EXPOSURE BELOW RECOMMENDED EXPOSURE LIMIT
 VENTILATION..... USE ENOUGH LOCAL VENTILATION, AND LOCAL EXHAUST AT ARC TO KEEP FUMES AND GASES FROM WORKER'S BREATHING ZONE AND GENERAL AREA. TRAIN WORKER TO KEEP HEAD OUT OF FUMES
 PROTECTIVE GLOVES..... SEE OTHER PROTECTIVE EQUIPMENT
 EYE PROTECTION..... WEAR HELMET, FACE SHIELD WITH FILTER LENS, PROTECTIVE SCREENS, FLASH GOGGLES TO SHIELD OTHERS. START WITH SHADE TOO DARK THEN GO TO LIGHTER SHADE WHICH GIVES SUFFICIENT VIEW OF WELD ZONE.
 OTHER PROTECTIVE EQUIPMENT... HAND, HEAD, BODY PROTECTION TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK. DO NOT TOUCH LIVE ELECTRICAL PARTS AND INSULATE FROM WORK AND GROUND.
 WORK/HYGIENIC PRACTICES..... FOR MAXIMUM SAFETY, BE CERTIFIED FOR, AND WEAR A RESPIRATOR AT ALL TIMES WHEN WELDING OR BRAZING.

NICKEL 99 FOR TIG A-NICKEL

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SECTION 9

DISCLAIMER

THIS DATA IS BELIEVED TO BE ACCURATE. HARRIS WEL

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SECTION 10

ADDITIONAL INFORMATION

NA - NOT AVAILABLE CARCINOGENITY INFORMATION: NICKEL COMPOUND ARE REQUIRED BY OSHA TO BE CONSIDERED CARCINOGENIC.

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SECTION 11

ADDITIONAL INFORMATION