

BARE WIRE 625(AWS A5.14)

MSDS Number

BNBTQ

National Stock Number

3439-01-137-8523

Product Name

BARE WIRE 625(AWS A5.14)

Manufacturer

NATIONAL WELDING ALLOYS INC

Product Identification

Product ID: BARE WIRE 625(AWS A5.14)

MSDS Date: 08/01/1990

FSC: 3439

NIIN: 01-137-8523

MSDS Number: BNBTQ

Responsible Party

NATIONAL WELDING ALLOYS, INC.

1600 SOUTH CANAL STREET

PITTSBURGH , PA 15215

US

Emergency Phone: 412-781-4255/800-424-9300(CHEMTREC)

Info Phone: 412-781-4255

Cage: 0ACE2

Contractor

NATIONAL WELDING ALLOYS INC

PITTSBURGH, PA 15215-2624

US

412-781-4255

Cage: 0ACE2

Ingredients

ALUMINUM (SARA III)

CAS: 7429-90-5

RTECS: BD0330000

Fraction By Weight: 0.40%

OSHA PEL15MG/M3 DUST/5 FUME

ACGIH TLV: 10MG/M3 DUST; 9192

CARBON

CAS: 1333-86-4

RTECS: FF5800000

Fraction By Weight: 0.10%

OSHA PEL3.5 MG/M3

ACGIH TLV: 3.5 MG/M3; 9192

CHROMIUM (SARA III)

CAS: 7440-47-3

RTECS: GB4200000

Fraction By Weight: 20-23%

OSHA PEL1 MG/M3

ACGIH TLV: 0.5 MG/M3; 9192

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

COLUMBIUM

Fraction By Weight: 3.1-4.1%

COPPER (SARA III)

CAS: 7440-50-8

RTECS: GL5325000

Fraction By Weight: 0.50%

OSHA PEL0.1MG/M3 FUME/1 DUST

ACGIH TLV: 0.2MG/M3 FUME; 9192

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

IRON

CAS: 7439-89-6

RTECS: NO4565500

Fraction By Weight: 5.00%

OSHA PEL10 MG/M3(FE2O3 FUME)

ACGIH TLV: 5 MG/M3 (FE2O3 FUME)

MANGANESE (SARA III)

CAS: 7439-96-5

RTECS: OO9275000

Fraction By Weight: 0.50%

OSHA PEL(C) 5 MG/M3 DUST

ACGIH TLV: 5 MG/M3 DUST 9293

MOLYBDENUM

CAS: 7439-98-7

RTECS: QA4680000

Fraction By Weight: 8-10%

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3; 9293

NICKEL (SARA III)

CAS: 7440-02-0

RTECS: QR5950000

Fraction By Weight: >58.0%

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3; 9192

SILICON

CAS: 7440-21-3

RTECS: VW0400000

Fraction By Weight: 0.50%

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST; 9293

TITANIUM, METAL

CAS: 7440-32-6

RTECS: XR1700000

Fraction By Weight: 0.40%

Hazards

LD50 LC50 Mixture:TLV FOR WELDING FUMES IS 5 MG/M3

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE: FUMES AND GASES CAN CAUSE EYES AND UPPER RESPIRATORY SYSTEM IRRITATION, AND CENTRAL NERVOUS SYSTEM EFFECTS. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL. NOISE CAN DAMAGE HEARING. CHRONIC: NEUROLOGICAL DAMAGE, LUNG FIBROSIS, PNEUMOCONIOSIS.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE LISTED UNDER IARC AND NTP.

Effects of Overexposure:SHORT TERM EXPOSURE: NAUSEA, FEVER, DIZZINESS, DRYNESS, IRRITATION OF EYES, NOSE AND THROAT, SKIN SENSITIVITY.

ACUTE EXPOSURE: SAME SYMPTOMS TO HIGHER DEGREE AS WELL AS Watery EYES, HEADACHE, BREATHING DIFFICULTY, FREQUENT COUGHING, CHEST PAINS.

Medical Condition Aggravated by Exposure:AGGRAVATION OF EXISTING RESPIRATORY OR ALLERGIC CONDITIONS.HIGHER LEVEL OF LUNG RELATED PROBLEMS AMONG SMOKERS.

First Aid

First Aid:INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, GIVE CPR. IF NO DETECTABLE PULSE, GIVE HEART MASSAGE. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SKIN: WASH WITH SOAP AND WATER. INGESTION: SEEK MEDICAL ATTENTION.

Fire Fighting

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:IF THIS MATERIAL IS REDUCED TO POWDER

FORM, CAUTION MUST BE USED TO PREVENT FIRE OR EXPLOSION. TO EXTINGUISH USE DRY SAND, DRY GRAPHITE.

Accidental Release

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN APPROPRIATE DISPOSAL CONTAINER. AVOID INHALATION AND SKIN EXPOSURE.

Handling

Handling and Storage Precautions:STORE IN DRY AREA. ELECTRODES EXPOSED TO MOISTURE MAY EXPLODE VIOLENTLY IF USED. DRY MOIST RODS BY BAKING AT 300F FOR TEN HOURS.

Other Precautions:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES. MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES. AVOID ELECTRICAL SHOCK BY MAINTAINING DRY WORK AREA.

Exposure Controls

Respiratory Protection:FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation: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 SHOULDER PROTECTION. AIR SAMPLING TO DETERMINE CORRECTIVE MEASURES

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING, SMOKING OR USING SANITARY FACILITIES.

Supplemental Safety and Health
NONE.

Chemical Properties

HCC:N1

Appearance and Odor:SOLID ROD, GREY TO SILVER IN COLOR.

Stability

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES FROM ELECTRODE AND BASE METAL, CARBON MONOXIDE, CARBON DIOXIDE, OZONE, NITROGEN OXIDES.

Disposal

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.

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