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NATIONAL WELDING ALLOYS, INC. -- BARE WIRE 69 -- 3439-01-100-4352

Product ID:BARE WIRE 69 MSDS Date:08/01/1990 FSC:3439 NIIN:01-100-4352 **MSDS Number: BRQRQ** === Responsible Party === Company Name:NATIONAL WELDING ALLOYS, INC. Address:1600 SOUTH CANAL STREET City:PITTSBURGH State:PA ZIP:15215 Country:US Info Phone Num:412-781-4255 Emergency Phone Num:412-781-4255/8 00-424-9300(CHEMTREC) CAGE:0ACE2 === Contractor Identification === Company Name:NATIONAL TORCH TIP CO INC. Address:50 FREEPORT RD City:PITTSBURGH State:PA ZIP:15215-2906 Country:US Phone:412-781-4200 CAGE:93009 Company Name:NATIONAL WELDING ALLOYS INC Address:1600 SOUTH CANAL STREET Box:City:PITTSBURGH State:PA ZIP:15215-2624 Country:US Phone:412-781-4255 CAGE:0ACE2

Ingred Name:ALUMINUM (SARA III) CAS:7429-90-5 RTECS #:BD0330 000 Fraction by Wt: .4-1% Other REC Limits:NONE SPECIFIED OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:CARBON CAS:1333-86-4 RTECS #:FF5800000 Fraction by Wt: 0.08% Other REC Limits:NONE SPECIFIED OSHA PEL:3.5 MG/M3 ACGIH TLV:3.5 MG/M3; 9192

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: 14-17% Other REC Limits:NONE SPECIFIED OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9192 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:COLUMBIUM Fraction by W t: .7-1.2% Other REC Limits:NONE SPECIFIED

Ingred Name:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: 0.50% Other REC Limits:NONE SPECIFIED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2MG/M3 FUME; 9192 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 5-9% Other REC Limits:NONE SPECIFIED OSHA PEL:10 MG/M3(FE2O3 FUME) ACGIH TLV:5 MG/M3 (FE2O3 FUME)

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 1% Other REC Limits:NONE SPECIFIED 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: 70% MIN Other REC Limits:NONE SPECIFIED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Fraction by Wt: 0.50% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:TITANIUM, METAL CAS:7440-32-6 RTECS #:XR1700000 Fraction by Wt: 2-2. 75% Other REC Limits:NONE SPECIFIED

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:WELDING GENERATES FUMES, GASES AND ELECTROMAGNETIC RADIATION WITH KNOWN ADVERSE HEALTH EFFECTS. THE COMPOSITION OF WELDING EMISSIONS VARIES SUBSTANTIALLY WITH THE WELDING PROCESS.

Expla

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

Effects of Overexposure:SHORT TERM EXPOSURETO WELDING FUMES MAY RESULT IN DISCOMFORT, DIZZINESS, NAUSEA AND DRYNESS OR ITTITATION OF THE THROAT. LONG TERM EXPOSURE TO WELDING FUMES, GASES OR DUST MAY CONTRIBUTE TO PULMONARY IRRITATION OR PNEUMONOCONIOSIS. LONG TERM EXPOSURE TO IRON FUMES MAY PRODUCE SIDEROSIS, WHICH IS REGARDED AS BENIGN.

Medical Cond Aggravated by Exposure: INDIVIDUALS WITH IMPA

IRED PULMONARY FUNCTIONS OR ILLNESS MAY HAVE SYMPTOMS EXCERBATED BY IRRITANTS CONTAINED IN WLEDING FUMES.

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First Aid:REMOVE FROM DUST OR FUMES EXPOSURE. IF BREATHING HAS STOPPED PERFORM ARTIFICIAL RESPIRATION. SUMMON MEDICAL AID IMMEDIATELY.
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Extinguishing Media:THIS ALLOY IS NONCOMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPIATE TO THE SURROUNDI NG FIRE.
 Fire Fighting Procedures: IF THSI MATERIAL IS REDUCED TO POWDER FORM, CAUTION MUST BE USED TO PREVENT FIRE OR EXPLOSION. TO EXTINGUISH A METAL FIRE USE DRY SAND, DRY GRAPHITE OR CLASS D. Unusual Fire/Explosion Hazard:NO UNUSUAL FIRE OR EXPLOSION HAZARD ARE ASSOCIATED WITH THIS MATERIAL.
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Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER. Other Precautions:WELDING FUMES AND GASES CANNOT BE CLASS IFIED SIMPLY. THE COMPOSITION AND QUANTITY OF BOTH ARE DEPENDENT UPON THE METAL WELDED, THE PROCESS, PROCEDURE AND ELECTRODES USED.
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Respiratory Protection: USE RESPIRABLE FUMES RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW PEL, TLV OR STEL.
Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE A RC OR BOTH TO KEEP FUMES & GASES BELOW PEL'S, TLV'S PR STEL'S.
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 OTHER PRECAUTIONS: USE EXHAUST SYSTEM TO CLEAR WELDIN

G FUMES. MAKE SURE THAT INHALED AIR DOES NOT CONTAIN FUME CONSTITUENTS ABOVE PERMISSIBLE LEVELS.
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HCC:N1 Appearance and Odor:SOLID WIRE OR ROD, GREY TO SILVER IN COLOR.
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 Stability Indicator/Materials to Avoid:YES AVOID CONTACT WITH MINERAL ACIDS & STRONG OXIDIZING AGENTS WHICH MAY GENERATE HYDROGEN GAS; MAY BE AN EXPLOSION HAZARD. Stability Condit ion to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:VARIOUS ELEMENTAL METALS & METAL OXIDES MAY BE GENERATED FROM MELTING OR DROSS HANDLING OPERATIONS.
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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 REGU LATIONS.
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