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Product ID:ALUMINUM AND MAGNESIUM BARE WELDING WIRE 55 MSDS Date:08/01/1990 FSC:3439 NIIN:01-013-3236 MSDS Number: BLNGP === 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, CHEMTREC 800-424-9300 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

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

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Ingred Name:SILICA, CRYSTALLINE - FUSED CAS:60676-86-0 RTECS #:VV7328000 Fraction by Wt: 0.25% Other REC Limits:0.08 MG/M3 R OSHA PEL:SEE TABLE Z3 ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:IRON OXIDE CAS:1309-37-1 RTECS #:NO7400000 Fraction by Wt: 0.40% Other REC Limits:NONE SPECIFIED OSHA PEL:10 MG/M3 (FE) ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: 0.10% Other REC Limits:NONE SPECIFIED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH T LV:0.2MG/M3 FUME; 9192 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 0.5-1.0% Other REC Limits:1 MG/M3 FUMES OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: .05-0.2% 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:MAGNESIUM OXIDE CAS:1309-48-4 RTECS #:OM38500 00 Fraction by Wt: 4.7-5.5% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 PARTICULATE ACGIH TLV:10 MG/M3;TDUST; 9293

Ingred Name:ZINC OXIDE CAS:1314-13-2 RTECS #:ZH4810000 Fraction by Wt: 0.25% Other REC Limits:NONE SPECIFIED OSHA PEL:15MG/M3 TDUST/5 FUME ACGIH TLV:10MG/M3 TDUST; 9293

Ingred Name:TITANIUM DIOXIDE CAS:13463-67-7 RTECS #:XR2275000 Fraction by Wt: .05-0.2% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:ALUMINUM (SARA III) CAS:7429-90-5 RTECS #:BD0330000 Fraction by Wt: BALANCE Other REC Limits:NONE SPECIFIED OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9192

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO WELDING FUMES, GASES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRR
ITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. L ONG TERM EXPOSURE TO FUMES/GASES/DUST MAY CAUSE PULMONARY IRRITATION OR PNEUMOCONIOSIS; & SIDEROSIS FROM IRON FUMES.
Explanation of Carcinogenicity:ALUMINUM AND CHROMIUM ARE LISTED CARCINOENS BY IARC AND NTP.
Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN

DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE N

OTED. WATERY EYES, HEADACHE, BREA THING DIFFICULTY, FREQUENT	
COUGHING AND/OR CHEST PAINS MAY OCCUR FROM ACUTE EXPOSURE. TO	OXIC
GASES CAN BE FATAL.	

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED PULMONARY FUNCTION OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY IRRITANTS CONTAINED IN WELDING FUMES.

First Aid:IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM EXPOSURE AREA AND ADMINI

STRATION OF FIRST AID. REMOVE FROM EXPOSURE AREA AND CALL FOR MEDICAL AID. ADMINISTER OXYGEN IF BREATHING IS D IFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. IF NO DETECTABLE PULSE, BEGIN EXTERNAL HEART MASSAGE. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

Extinguishing Media:NONCOMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPRIATE TO THE SURROUNDING FIRE.

Fire Fighting Procedur

es:TO EXTINGUISH A METAL POWDER FIRE USE DRY

SAND, OR CLASS D FIRE EXTINGUISHERS. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FED ERAL, STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSU RE.

Handling and Storage Precautions:WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING. Other Precautions:PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS. WHEN

ELECTRODES AND FLUXES ARE CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT

IN FORM FROM THE INGREDIENTS LISTED. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM.
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Respiratory Protection:USE WELD FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRATORS. Ventilation:USE ENOUGH VENTILATION WHEN CUTTING, GRINDING OR WELDING TO
KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE Protective Gloves:FLAMEPROOF GAUNTLER GLOVES Eye Protection:OSHA APPROVED GOGGLES/FACE SHIELD W/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:WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE. Supplemental Safety and Health WELDING AND HOT CUTTING FUME
S & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THEPRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.
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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 MINERAL ACIDS AND STRONG OXIDIZING AGENTS Stability Condition to Avoid:NONE Hazardous Decomposition Products:WELDING/CUTTING OPERATIONS MAY INCLUDE ELEMENTAL METALS, OXIDES OF THE METALS, FUMES/GASES & ELECTROMAGNETIC RADIATION.

Waste Disposal Methods:DISPOSE I/A/W FEDERAL, STATE & LOCAL REGULATIONS. CHROMIUM IS REGULATED BY EPA.

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