

NATIONAL WELDING ALLOYS, INC. -- 4043 ALUMINUM -- 3439-01-012-6661
===== Product Identification =====

Product ID:4043 ALUMINUM
MSDS Date:01/01/1987
FSC:3439
NIIN:01-012-6661
MSDS Number: BJDKP
=== 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:412-781-425
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CAGE:0ACE2
=== Contractor Identification ===
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 =====

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: 93-94%
Other REC Limits:NONE SPECIFIED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:COPPER (SARA III)
CAS:7440-50-8

RTECS #:GL5325000
Fraction by Wt: 0.3%
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: 0.8%
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG/M3 FE2O3 AS FE
ACGIH TLV:5 MG/M3 FE2O3 AS FE

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Fraction by Wt: 0.05%
Other REC Limits:NONE SPECIFIED

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS
#:OO9275000
Fraction by Wt: 0.05%
Other REC Limits:NONE SPECIFIED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 4.5-6.0%
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: 0.20%
Other REC Limits:NONE SPECIFIED

Ingred Name:ZINC (SARA III)
CAS:7440-66-6
RTECS #:ZG8600000
Fraction by Wt: 0.10%
Other REC Limits

:NONE SPECIFIED
OSHA PEL:10 MG ZNO/M3
ACGIH TLV:10 MG ZNO/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:OTHER COMPONENTS
Fraction by Wt: 0.05%
Other REC Limits:NONE SPECIFIED

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===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:FUMES AND GASES CAN BE DANGEROUS TO
YOUR HEALTH. ARC RAYS CAN INJURE EYES AND BURN SKIN. EL
ECTRIC SHOCK
CAN KILL. NOISE CAN DAMAGE HEARING.
Explanation of Carcinogenicity:INGREDIENTS ARE NOT LISTED UNDER OSHA,
IARC OR NTP.
Effects of Overexposure:ACUTE:METALLIC TASTE,NAUSEA,TIGHTNESS OF
CHEST,FEVER,DIZZINESS,DRYNESS,IRRITATION OF EYES,NOSE AND THROAT.
CHRONIC:EXCESSIVE LEVELS MAY CAUSE BRONQUIAL ASTHMA,LUNG FIBROSIS
AND PNEUMOCONIOSIS.
Medical Cond Aggravated by Exposure:AGGRAVATION OF EXISTING RESPIRATORY
OR ALLERGIC CONDITIONS.HIGHER LEVEL OF LUNG RELATED PRO
BLEMS AMONG
SMOKERS.

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===== First Aid Measures =====

First Aid:REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION. IF
NOT BREATHING,GIVE CPR/OXYGEN. EMPLOY FIRST AID TECHNIQUES
RECOMMENDED BY AMERICAN RED CROSS.

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===== Fire Fighting Measures =====

Extinguishing Media:AS APPROPRIATE FOR SURROUNDING FIRE.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WH

EN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:WELDING ARCS, SPARKS, ETC. MAY IGNITE
COMBUSTIBLE MATERIAL.

===== Accidental Release Measures =====

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

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN DRY AREA. ELECTRO
DES 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. WELDING ARC CAN IGNITE
COMBUSTIBLES AND FLAMMABLES.

===== Exposure Controls/Personal Protection =====

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.

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= Physical/Chemical Properties =====

HCC:N1
Solubility in Water:INSOLUBLE
Appearance and Odor:WELDING ROD. NO ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES FROM
ELECTRODE AND BASE METAL, CARBON MONOXIDE, CARBON DIOXIDE, OZONE,
NITROGEN OXIDES.

===== Disposal Considerations =====

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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