

SANDVIK INC WELDING AND WIRING DIVISION -- SANDVIK -- 3439-01-164-5274

===== Product Identification =====

Product ID:SANDVIK

MSDS Date:04/01/1991

FSC:3439

NIIN:01-164-5274

MSDS Number: BYDKK

=== Responsible Party ===

Company Name:SANDVIK INC WELDING AND WIRING DIVISION

Address:INTERSTATE 81 EXT 59

Box:1220

City:SCRANTON

State:PA

ZIP:18501-1220

Country:US

Info Phone Num:717-587-5191 FAX:717-586-81

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Emergency Phone Num:717-587-5191

CAGE:61005

=== Contractor Identification ===

Company Name:SANDVIK INC WELDING AND WIRING DIVISION

Address:INTERSTATE 81 EXT 59

Box:1220

City:SCRANTON

State:PA

ZIP:18501

Country:US

Phone:717-587-5191

CAGE:61005

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

Ingred Name:CHROMIUM (SARA 313) (CERCLA)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 0 - 25%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9495

EPA Rpt Q

ty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:COPPER (SARA 313) (CERCLA)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 30 - 65%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2 MG/M3 FUME; 9495
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 1 - 5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG/M3 (TDUST)
ACGIH TLV:5 MG/M3 (OXIDE FUME)

Ingred Name:MANGANESE (SARA 313)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by
Wt: 1 - 5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9495

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 1 - 10%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 PPM.
ACGIH TLV:10 PPM.

Ingred Name:NICKEL (SARA 313) (CERCLA)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 30 - 65%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9495

Ingred Name:NIOBIUM (ALSO CALLED COLUMBIUM)
CAS:7440-03-1
Fraction by Wt: 0 - 5%

Other REC Limits:NONE RECOMMENDED

Ingred Name:TITANIUM,

CAS:7440-32-6

RTECS #:XR1700000

Fraction by Wt: 1 - 5%

Other REC Limits:NONE RECOMMENDED

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

Flash Point:NONFLAMMABLE

Extinguishing Media:USE CHEMICAL OR SAND FOR MOLTEN METALS. COOL
FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL
FACEPIECE OPERATED
IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:THIS PRODUCT IS NONREACTIVE,
NONFLAMMABLE, NONEXPLOSIVE AND NONHAZARDOUS UNTIL WELDED. WELDING
ARC AND SPARKS CAN IGNITE COMBUSTIBLE AND FLAMMABLE MATERIALS.

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

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:N1

NRC/State Lic Num:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT REL
EVENT

Solubility in Water:INSOLUBLE

Appearance and Odor:WELDING WIRE OR STRIP - ODORLESS

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS

Stability Condition to Avoid:NONE

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