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Product ID:SANDVIK MSDS Date:04/01/1991 FSC:3439 NIIN:00-460-7667 MSDS Number: CDPXR === Responsible Party === Company Name: SANDVIK STEEL CO Box:1220 City:SCRANTON State:PA ZIP:18501-1220 Country:US Info Phone Num:717-587-5191 Emergency Phone Num:717-587-5191 CAGE:1BT93 === Contractor Identification === Company Name :SANDVIK STEEL CO. Box:1220 **City:SCRANTON** State:PA ZIP:18501-1220 Country:US Phone:717-587-5191 CAGE:1BT93

Ingred Name:CALCIUM CARBONATE; (CACO*2) CAS:1317-65-3 RTECS #:EV9580000 Fraction by Wt: 1-10% OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST

Ingred Name:CALCIUM FLUORIDE; (CAF*2) CAS:7789-75-5 RTECS #:EW1760000 Fraction by Wt: 1-10% OSHA PEL:2.5 MG/M3 (F) (MFR) ACGIH TLV:2.5 MG/M3 (F) (MFR)

Ingred Name:CHROMIUM; (CR)

(SARA 313) (CERCLA) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: 5-30% OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB Ingred Name:COPPER; (CU) (SARA 313) (CERCLA) CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: 0-4% OSHA PEL:0.1MG/M3 FUME;1 DUST ACGIH TLV:0.2 MG/M3 FUME EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ingred Name: IRON; (FE) CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: BALANCE OSHA PEL:10 MG/M3 (MFR) ACGIH TLV:5 MG/M3 (MFR) Ingred Name:MANGANESE; (MN) (SARA 313) CAS:7439-96-5 RTECS #:009275000 Fraction by Wt: 1-10% OSHA PEL:5 MG/M3 DUST, C ACGIH TLV:5 MG/M3 DUST Ingred Name:MOLYBDENUM; (MO) CAS:7439-98-7 RTECS #:QA4680000 Fraction by Wt: 1-10% OSHA PEL:10 PPM ACGIH TLV:10 PPM Ingred Name:NICKEL; (NI) (SARA 313) (CERCLA) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 1-35% OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 Ingred Name:NIOBIUM; (NB) (ALSO CALLED COLUMBIUM) CAS:7440-03-1 RTECS #:QT9900000 Fraction by Wt: 1-10% **OSHA PEL:N/K** ACGIH TLV:N/K

L

ngred Name:POTASSIUM; (POTASSIUM (K)) CAS:7440-09-7 RTECS #:TS6460000 Fraction by Wt: 1-10% **OSHA PEL:N/K** ACGIH TLV:N/K Ingred Name:SODIUM; (NA) (CERCLA) CAS:7440-23-5 RTECS #:VY0686000 Fraction by Wt: 1-10% **OSHA PEL:N/K** ACGIH TLV:N/K Ingred Name:SILICON; (SI) CAS:7440-21-3 RTECS #:VW0400000 Fraction by Wt: 1-10% OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST Ingred Name:SODIUM FLUOALUMINATE; (SODIUM ALUMINUM FLUORIDE (NA*3ALF*2)) CAS:15096-52-3 RTECS #:WA9625000 Fraction by Wt: 1-10 % OSHA PEL:2.5 MG/M3 (F) (MFR) ACGIH TLV:2.5 MG/M3 (F) (MFR) Ingred Name: TITANIUM OXIDE; (TITANIUM DIOXIDE (TIO*2)) CAS:13463-67-7

RTECS #:XR2275000 Fraction by Wt: 1-20% OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST

Ingred Name:SUPP DATA:GOGGLES, IF NECESSARY, TO SHIELD OTHERS. RTECS #:99999992Z

Ingred Name:OTHER PROT EQUIP:SPKS & ELEC SHOCK. SEE ANSI Z49.1. THIS MAY INCL ARM PROTECTORS, APRONS, HATS, SHOULDER PROT & (ING 17) RTECS #:9999999ZZ

Ingred Name: ING 16: DARK SUBSTANTIAL CLOT

HING. RTECS #:9999999ZZ

Ingred Name:HAZ DECOMP PROD:COATING, ETC, & FUMES & GASES (CARBON DIOXIDE, CARBON MONOXIDE, DINITROGEN TETROXIDE, HYDROGEN (ING 19) RTECS #:9999999ZZ

Ingred Name:ING 18:FLUORIDE, NITRIC OXIDE, NITROGEN DIOXIDE, OZONE, PHOSGENE & PHOSPHINE). FOR MORE SPECIFIC INFO, CONT NEHC . RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:TO BE POTNTL CARCIN IN IARC MONOGRAPHS & LISTED BY OSHA/ACGIH AS POTNTL CARCIN (MFR). RTECS #:9999999ZZ

====== Hazards Id

entification ========================

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:WELDING CONSUMABLES APPLIC TO THIS MSDS AS SHIPPED ARE NON REACTIVE, NON FLAMM, NON EXPLO & ESSNTLY NON HAZ UNTIL WELDED. ELEC ARC WELDING MAY CREATE ONE/MORE OF FOLLOWING HLTH HAZS: FUMES & GASES CAN BE DANGEROUS TO YOUR HLTH. ACUTE:OVEREXP TO WELDIN

G FUMES MAY RSLT IN DISCOMFORT SUCH AS DIZZ,

NAUS OR(EFTS OF OVEREXP)

Explanation of Carcinogenicity:NICKEL:IARC MONOGRAPHS ON EVAL OF CARCIN RISK OF CHEMS TO MAN, VOL 49, PG 257, 1990:GRP 2B. NTP 7TH ANNUAL RPT (SUPDAT)

Effects of Overexposure:HLTH HAZ:DRYNESS/IRRIT OF NOSE, THROAT/EYES. CHRONIC:OVEREXP TO WELDING FUMES CAN LEAD TO SIDEROSIS (IRON PRODS IN LUNGS), CNS DMG, SENSIT DERM & BELIEVED BY SOME INVESTIGATORS TO AFFECT PULM FUNC. AR C RAYS CAN INJURE EYES & BURN SKIN. ELEC SHOCK

CAN KILL. CHROMIUM IS LISTED IN NTP ANNUAL RPT ON CARCINS & FOUND(ING 20)

Medical Cond Aggravated by Exposure:AGGRAVATION OF RESPIRATORY OR ALLERGIC CONDITIONS MAY AFFECT SOME EXPOSED INDIVIDUALS.

First Aid:REMOVE FROM EXPOSURE & CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUE RECOMMENDED BY THE AMERICAN RED CROSS. INGEST:CALL MD IMMEDIATELY . INHAL:REMOVE TO FRESH AIR. SUPPORT BREATHING (GIVE

O*2 /ARTF RESP) . EYES:IMMEDIATELY FLUSH W/POTABLE WATER FOR A MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM MD . SKIN:FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD .

Flash Point:NONFLAMMABLE Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE . Fire Fighting Procedures: USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT. Unusual Fire/Explosion Hazard:WELDING ARC & SPARKS CAN IGNITE **COMBUSTIBLES & FLA** MMABLES. REFER TO ANSI Z49.1 FOR FIRE PREVENTION **DURING USE OF WELDING & ALLIED PROCEDURES.** Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: TRAIN EACH WELDER TO KEEP HIS/HER HEAD OUT OF FUMES. TRAIN EACH WELDER NOT TO TOUCH LIVE ELEC PARTS & TO INSULATE HIS/PER PERSON FROM WORK & GROUND. Other Precautions:READ & UNDERSTAND MFR'S INSTRUCTIONS & PRECAUTIONARY LBL ON PROD. SEE ANSI Z49.1, SAFETY IN WELDING & CUTTING, PUBLISHED BY AWS, P.O. BOX 351040, MIAMI, FL 33195 & OSHA PUBLICATION 2206 (29 CFR 1910), U.S. GOVT PRINTING OFFICE, (SUPP DATA)

Respiratory Protection: USE NIOSH APPROVED RESPIRABLE FUME RESPIRATOR OR AIR-SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT

KEEP EXPOSURE BELOW TLV/PEL.

Ventilation:USE ENOUGH VENT, LOCAL EXHST AT THE ARC, OR BOTH, TO KEEP FUMES & GASES BELOW TLV/PEL IN WORKER'S BRTHG ZONE & GEN AREA. Protective Gloves:WELDER'S GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS & (SUPDAT)

Other Protective Equipment: ANSI APPRVD EYE WASH FOUNTAIN & DELUGE SHOWER. WEAR HEAD, HAND & BODY PROT TO HELP PVNT INJURY FROM RADIA, (ING 16)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXPLAN

OF CARCIN:ON CARCINS, 1994:ANTIC TO BE CARCIN. ANIMAL:LUNGS, NASAL CAVITIES. OTHER PREC:WASHINGTON, D.C. 20402, FOR MORE DETAILS. EYE PROT:FULL LGTH FCSHLD . WEAR HELMET/USE FCSLD W/FILTE R LENS. LENS FILTER SHOULD BE AS DARK AS POSS W/OUT OBSTRUCTING VIEW OF WELD ZONE. PROVIDE PROT SCREENS & FLASH (ING 15)

HCC:T6 Appearance and Odor:SOLID CORE AND A FLUX COATING.

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

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:WELDING FUMES & GASES CANNOT BE
CLASSIFIED SIMPLY. DECOMP PRODS INCL OXIDATION OF INGS FROM BASE
METAL & (ING 18)

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR

LINER IN AN ENVIRONMENTALLY ACCEPTED MANNER, IN FULL COMPLIANCE W/FEDERAL, STATE & LOCAL REGULATIONS.

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