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SANDVIK STEEL CO -- SANDVIK -- 3439-00-460-7667

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

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

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 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 #:9999999ZZ

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 #:9999992Z

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

RTECS #:9999992Z

====== 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. ========= Accidental Release Measures ============= Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ========== Handling and Storage ============== 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) ===== Exposure Controls/Personal Protection ======== 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

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

RADIA, (ING 16)

EXPLAN

Supplemental Safety and Health

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)

======== Physical/Chemical Properties ==========
HCC:T6 Appearance and Odor:SOLID CORE AND A FLUX COATING.
============= Stability and Reactivity Data ===================================

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)

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

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

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