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SANDVIK INC WELDING AND WIRING DIVISION -- CR-NI COATED ELECTRODES, TYPE -15 & -16 --3439-00-460-7660

Product ID:CR-NI COATED ELECTRODES, TYPE -15 & -16 MSDS Date:10/01/1985 FSC:3439 NIIN:00-460-7660 MSDS Number: BJJFB === Responsible Party === Company Name: SANDVIK INC WELDING AND WIRING DIVISION Address: INTERSTATE 81 EXT 59 Box:1220 **City:SCRANTON** State:PA ZIP: 18501 Country:US Info Phone Num:717-587-5191 OR 800-233-4181 Emergency Phone Num:717-587-5191 CAGE:61005 === Contractor Identification === Company Name: ESAB GROUP INC Address:801 WILSON AVENUE Box:517 City:HANOVER State:PA ZIP:17331 Country:US Phone:717-637-8911 OR 800-933-7070 CAGE:84021 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 In

gredients ========

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE) CAS:1317-65-3 RTECS #:EV9580000 Fraction by Wt: 1-10% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:CALCIUM FLUORIDE CAS:7789-75-5 RTECS #:EW1760000 Fraction by Wt: 1-10% Other REC Limits:NONE SPECIFIED

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: TO 100% Other REC Limits:NONE SPECIFIED

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB42 00000 Fraction by Wt: 5-30% 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:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: 0-4% 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:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 1-10% Other REC Limits:NONE SPECIFIED OSHA PEL:(C) 5 MG/M3 DU ST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Fraction by Wt: 1-10% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 1-35% Other REC Limits:NONE SPECIFIED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

Ingred Name:NIOBIUM (ALSO CALLED COLUMBIUM) CAS:7440-03-1 Fraction by Wt: 1-10% Other REC Limits:NONE SPECIFIED

Ingred Name:POTASSIUM, METAL CAS:7440 -09-7 RTECS #:TS6460000 Fraction by Wt: 1-10% Other REC Limits:NONE SPECIFIED

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Fraction by Wt: 1-10% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SODIUM, METAL CAS:7440-23-5 RTECS #:VY0688000 Fraction by Wt: 1-10% Other REC Limits:NONE SPECIFIED

Ingred Name:TITANIUM DIOXIDE CAS:13463-67-7 RTECS #:XR2275000 Fraction by Wt: 1-20% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SODIUM FLUORALUMINATE CAS:15096-52-3 RTECS #:WA9625000 Fraction by Wt: 1-10% Other REC Limits:NONE SPECIFIED OSHA PEL:2.5 MG F/M3 ACGIH TLV:2.5 MG F/M3

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:WELDING CONSUMABLES ARE NON-REACTIVE, NON-FLAMMABLE, NON-EXPLOSIVE, AND ESSENTIALLY NON-H AZARDOUS UNTIL USED IN A WELDING OPERATION. WELDING HAZARDS INCLUDE INHALATION OF FUMES, THERMAL BURNS, AND RA DIATION BURNS AND ELECTRIC SHOCK. Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE CONSIDERED POSSIBLE CARCINOGENS UNDER OSHA. RESPIRATORY CANCER FROM WELDING IS UNCONFIRMED. Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN DIZZINESS, NAUSEA, FEVER AND/OR IRRITATION OF NOSE, THROAT AND EYES. TOXIC GASES CAN BE FATAL. Medical Cond Aggravated by Exposure:PRE-EXISTING RESPIRATORY

DISFUNCTION MAY BE AGGRAVATED BY FUME INHALATION.

First Aid:FUME INHALATION:REMOVE FROM EXPOSURE. GET MEDICAL ATTENTION. THERMAL BURN:USE NORMAL FIRST AID. ULTRAVIOLET EXPOSURE:SKIN;TREAT AS SUNBURN. EYE; GET MEDICAL ATTENTION. ELECTRIC SHOCK:TURN OFF POWER. R EMOVE AND RESTORE BREATHING IF NECESSARY. GET MEDICAL ATTENTION.

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

Flash Point:NON-FLAMMABLE

Extinguishing Media: PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: ARCS, SPARKS OR HOT METAL FROM A WELDING OPERATION MAY IGNITE NEARBY COMBUSTABLE MATERIAL.

Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONTAINERS. AVOID INHALATION AND SKIN EXPOSURE.

Neutralizing Agent:NOT RELEVANT

Handling and Storage Precautions:NO SPECIAL HANDLING IS REQUIRED. STORE AS DIRECTED BY MFR. Other Precautions:SEE ANSI STANDARD Z49.1-1983. READ "SAFETY IN

WELDING AND CUTTING" F

ROM AMERICAN WELDING ASSOCIATION, 550 N.W.

JEUNE RD., MIAMI, FL 33135.

Respiratory Protection:USE NIOSH/MSHA 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 PEL/TLV.

Ventilation:USE LOCAL VENTILATION WHEN CUTTING, GRINDING OR WELDING TO KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE.

Protective Gloves:WELDERS LEATHER GLOVES

Eye Protection:OSHA APPR.GOGGLES/FACE SH'LD W/ANSI 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:USE GOOD INDUSTRIAL HYGIENE. WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLAS SIFIED 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.

HCC:N1

Evaporation Rate & amp; Reference:NEGLIGIBLE Solubility in Water:NEGLIGIBLE Appearance and Odor:SOLID WIRE WITH FLUX COATING Percent Volatiles by Volume:NIL

Stability Indicator/Materials to Avoid:YES ACIDS Stability Condition to Avoid:NONE Hazardous Decomposition Products:WELDING AND CUTTING OPERATION MAY PRODUCE OXIDES OF THE METALS, CHROMATES, FLUORIDES, COMPLEX METALLICS, AND OZONE.

Waste Disposal Methods:DISPOSE I/A/W FEDERAL, STATE & LOCAL REGULATIONS. RECLAIM METALS IF APPROPRIAT E.

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