

SANDVIK STEEL COMPANY -- SANDVICK AWSA5-9-62T -- 3439-00-334-4878

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

Product ID:SANDVICK AWSA5-9-62T

MSDS Date:10/01/1985

FSC:3439

NIIN:00-334-4878

MSDS Number: BKYKL

=== Responsible Party ===

Company Name:SANDVIK STEEL COMPANY

Box:1220

City:SCRANTON

State:PA

ZIP:18501-1220

Info Phone Num:(717) 587-5191

Emergency Phone Num:(717) 587-5191

CAGE:1BT93

=== Contractor Id

entification ===

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

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:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 18-20%

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 91

92

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:1 MG(CU)/M3 (DUST)

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: BALANCE

OSHA PEL:5 MG/CUM

Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000

Fraction by Wt: 1-2.5%

OSHA PEL:(C) 5 MG/M3 DUST

ACGIH TLV:5 MG/M3 DUST 9293

Ing

red Name:MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000

Fraction by Wt: 2-3%

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: 11-14%

Other REC Limits:1 MG/CUM

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:SILICON

CAS:7440-21-3

RTECS #:VW0400000

Fraction by Wt: 0.2-0.6%

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

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

Routes of Entry: Inh

alation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:INHALATION: DISCOMFORT, DIZZINESS, NAUSEA, DRYNESS OR IRRITATION OF NOSE, THROAT, SIDEROSIS, WHICH AFFECT PULMONARY FUNCTION. EYES: IRRITATION & INJURY. SKIN: BURN.

Explanation of Carcinogenicity:CHROMIUM & NICKEL ARE SUSPECTED TO BE CARCINOGENS.

Effects of Overexposure:INHALATION: DISCOMFORT, DIZZINESS, NAUSEA, DRYNESS OR IRRITATION OF NOSE, THROAT, SIDEROSIS, WHICH AFFECT

PULMONARY FUNCTION. EYE: IRRITATION & INJURY. SKIN: BURN.

Medical Cond Aggravated by Exposure:RESPIRATORY OR ALLERGIC CONDITIONS.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. EYES/SKIN: FLUSH W/WATER. EMPLOY FIRST AID TECHNIQUE RECOMMENDED BY THE AMERICAN RED CROSS. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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

Flash Point:NONFLAMMABLE

Unusual Fire/Explosion Hazard:WELDING ARC & SPARKS CAN IGNITE COMBUSTIBLES & FLAMMABLES. REFER TO AMERICAN NATIONAL Z49.1 FOR FIRE PREVENTION DURING THE USE OF WELDING & ALLIED PROCEDURES.

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

Handling and Storage Precautions:THE COMPOSITION & QUANTITY OF WELDING FUMES & GASES ARE DEPENDENT UPON THE METAL BEING WELDED, THE PROCESS, PROCEDURES, & ELECTRODES USED.

Other Precautions:ELECTRIC SHOCK CAN KILL. TRAIN EACH WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS, TO INSULATE HIS/HER PERSON FROM WORK/GROUND & TO KEEP HIS/HER HEAD OUT OF THE FUMES. FUMES & GASES CAN BE DANGEROUS TO THE HEALTH.

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

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