

SANDVIK STEEL CO DIV OF SANDVIK INC -- SANDVIK -- 3439-00-473-5596

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

Product ID:SANDVIK

MSDS Date:10/01/1985

FSC:3439

NIIN:00-473-5596

MSDS Number: BKYLF

=== Responsible Party ===

Company Name:SANDVIK STEEL CO DIV OF SANDVIK INC

Address:INTERSTATE 81 EXIT 59

Box:1220

City:SCRANTON

State:PA

ZIP:18501-1220

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 (MARBLE) (LIMESTONE)

CAS:1317-65-3

RTECS #:EV9580000

Fraction by Wt: 1-10%

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:CALCIUM FLUORIDE, FLUORSPAR, CALCIUM DIFLUORIDE, IRTRAN 3,
LIPARITE

CAS:7789-75-5

RTECS #:EW1760000

Fraction by Wt: 1-10%

Other REC Limits:2.5 MG/

CUM (AS F)
OSHA PEL:2.5 MG/CUM (AS F)
ACGIH TLV:2.5 MG/CUM (AS F)

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 18-21%
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: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 #:NO456
5500
Fraction by Wt: BALANCE
OSHA PEL:5 MG/CUM

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 2.50%
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 1-10%
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: 9-11%
Other REC Limits:1 MG/CUM
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:COLUMBIUM, NIOBIU

M
CAS:7440-03-1
Fraction by Wt: 1-10%
Other REC Limits:5 MG/CUM
OSHA PEL:5 MG/CUM
ACGIH TLV:5 MG/CUM

Ingred Name:POTASSIUM
CAS:7440-09-7
RTECS #:TS6460000
Fraction by Wt: 1-10%

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 0.90%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SODIUM (SARA III)
CAS:7440-23-5
RTECS #:VY0686000
Fraction by Wt: 1-10%

Ingred Name:CRYOLITE, SODIUM ALUMINUM FLUORIDE
CAS:15096-52-3
RTECS #:WA9625000
Fraction by Wt: 1-10%
OSH
A PEL:2.5 MG/CUM
ACGIH TLV:2.5 MG/CUM

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Fraction by Wt: 1-20%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:PHOSPHOROUS (YELLOW) (SARA III)
CAS:7723-14-0
RTECS #:TH3500000
Fraction by Wt: 0.04%
Other REC Limits:100 UG/CUM
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.1 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin:YES I

ngestion:NO

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

Health Hazards Acute and Chronic:EYES: IRRITATION & INJURY. SKIN: BURN.

INHALATION: DIZZINESS, NAUSEA, DRYNESS, IRRITATION OF NOSE, THROAT
& EYES, SIDEROSIS (IRON DEPOSITS IN LUNG), AFFECT PULMONARY
FUNCTION & RESPIRATORY SYSTEM IRRITATION.

Explanation of Carcinogenicity:CALCIUM FLUORIDE & NICKEL ARE SUSPECTED
HUMAN CARCINOGENS.

Effects of Overexposure:EYES: IRRITATION & INJURY. SKIN: BURN.

INHALATION: DIZZ

INESS, NAUSEA, DRYNESS, IRRITATION OF NOSE, THROAT

& EYES, SIDEROSIS (IRON DEPOSITS IN LUNG), AFFECT PULMONARY
FUNCTION & RESPIRATORY SYSTEM IRRITATION.

Medical Cond Aggravated by Exposure:RESPIRATORY OR ALLERGIC CONDITIONS

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

First Aid:EYES/SKIN: FLUSH W/WATER. INHALATION: REMOVE TO FRESH AIR.
OBTAIN MEDICAL ATTENTION IN ALL CASES.

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

Flash Point:N

ON FLAMMABLE

Unusual Fire/Explosion Hazard:WELDING ARC & SPARKS CAN IGNITE
COMBUSTIBLES & FLAMMABLE PRODUCTS.

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

Handling and Storage Precautions:WELDING FUMES/GASES CANNOT BE
CLASSIFIED SIMPLY. FUMES & GASES CAN BE DANGEROUS TO YOUR HEALTH.

Other Precautions:DON'T PERMIT ELECTRICALLY LIVE PARTS & ELECTRODES TO
CONTACT SKIN & CLOTHING OR GLOVES IF THEY ARE WET. ELECTRIC SHOCK
CAN KILL. INSULATE FROM WORK & GROUND.

ARC RAYS CAN INJURE EYES &
BURN SKIN.

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR/SUPPLIED
RESPIRATOR WHEN WELDING IN CONFINED SPACE OR GENERAL WORK AREA.

Ventilation:USE LOCAL EXHAUST VENTILATION TO KEEP