

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) 58

7-5191

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  
D  
OT 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: 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 P

EL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192

Ingred Name:COLUMBIUM, NIOBIUM  
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%  
OSHA 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 Ingestion: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: DIZZINESS, NAUSEA, DRYNESS, IRRITATION OF NOSE, THROAT  
& EYES, SIDEROSIS (IRON DEPOSITS IN LUNG), AFFECT PULMONARY  
FUNCTION & RESPIRATORY SYSTEM IRRITATION.

Medical Conditions Aggravated by Exposure:RESPIRATORY OR ALLERGIC CONDITIONS

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

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

=====

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

Flash Point:NON 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