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SANDVIK STEEL CO. -- CORROSION RESISTING CHROMIUM ELECTRODES & RODS 3439-00-995-9722

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

Product ID:CORROSION RESISTING CHROMIUM ELECTRODES & RODS

MSDS Date: 10/01/1985

FSC:3439

NIIN:00-995-9722 Status Code:A

MSDS Number: CHWZJ === 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: CHROMIUM (SARA 313) (CERCLA)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 1-30%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9596

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: COPPER (

SARA 313) (CERCLA)

CAS:7440-50-8

RTECS #:GL5325000 Fraction by Wt: 0-4%

Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2 MG/M3 FUME; 9596

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:IRON CAS:7439-89-6

RTECS #:NO4565500 Fraction by Wt: BALANCE

Other REC Limits: NONE RECOMMENDED

Ingred Name: MANGANESE (SARA 313)

CAS:7439-96-5

RTECS #:OO9275000 Fraction by Wt: 1-5%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C, 5 MG/M3 (FUME) ACGIH TLV:0.2 MG/M3; 9596

Ingred N

ame:MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000 Fraction by Wt: 1-5%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:10 PPM. ACGIH TLV:10 PPM.

Ingred Name: NICKEL (SARA 313) (CERCLA)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 1-35%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9596

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000 Fraction by Wt: 0.4-2%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9596

====== Hazar

LD50 LC50 Mixture: NOT GIVEN FOR PRODUCT AS A WHOLE

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Health Hazards Acute and Chronic: NOT HAZARDOUS AS SHIPPED/STORED.

HAZARD OCCURS WHEN MATERIAL IS USED IN WELDING PROCESS. EXPOSURE TO DUST, WELDING FUMES AND GASES MAY CAUSE METALLIC TASTE, NAUSEA, TIGHTNESS IN CHEST, FEVER, IRRITATI ON OF EYES, NOSE, THROAT AND SKIN. LOSSOF CO

NSCIOUSNESS/DEATH DUE TO WELDING GASES OR LACK OF OXYGEN.

Explanation of Carcinogenicity:THIS PRODUCT CONTAINS CHROMIUN AND NICKEL CONSIDERED POSSIBLE CARCINOGENS UNDER OSHA.

Effects of Overexposure:METALLIC TASTE, NAUSEA, TIGHTNESS IF CHEST, FEVER, IRRITATION OF EYES/NOSE/THROAT, SKIN IRRITATION, LOSS OF CONSCIOUSNESS, DEATH. LONG TERM EXPOSURE MAT RESULT IN SKIN SENSITIZATION, NEUROLOGICAL DAMA GE, RESPIRATORY DISEASE SUCH AS BRONCHIAL ASTHMA, LUNG FIBROSIS, PNEUMOCONIO SIS.

Medical Cond Aggravated by Exposure:PREEXISTING RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.

First Aid:REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION. IF VICTIM IS UNCONSCIOUS, ADMINISTER OXYGEN. IF NOT BREATHING, RESUSCITATE IMMEDIATELY.

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

Flash Point:NONFLAMMABLE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN

Exti

nguishing Media:NONFLAMMABLE. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES. REFER TO ANSI Z49.1, SAFETY IN WELDING AND CUTTING, PUBLISHED BY THE AMERICAN WELDING SOCIETY FOR INFORMATION. Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

======= Accidental Release Measures =========

Spill Release Procedures:COLLECT FOR RECLAMATION/DISPOSAL. Neutralizing Agent:NONE SPEC

============== Handling and Storage ==============
Handling and Storage Precautions:ELECTRICAL SHOCK CAN KILL. TRAIN THE WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND THE WORK BEING GROUNDED.  Other Precautions:READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND PRECAUTIONARY LABEL ON THE PRODUCT. SEE ANSI Z49.1, SAFETY IN WELDING AND CUTTING PUBLISHED BY THE AMERICAN WELDING SOCIETY, PO BOX 351040
, MIAM I, FL 33135 AND OSHA PUBLICATION 2206.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE RO WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV'S. USE ONLY NIOSH APPROVED RESPIRATORS I N ACCORDANCE WITH 29CFR1910.134.  Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC OR BOTH TO KEEP THE FUMES AND GASES BELOW TLV'S I  N BREATHING ZONE.  Protective Gloves:WELDER'S GLOVES Eye Protection:HELMET, FACE SHIELD W/FILTER LENS Other Protective Equipment:HAND, HEAD & BODY PROTECTION TO PREVENT INJURY FROM RADIATION, SPARKS & ELECTRICAL SHOCK.  Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. Supplemental Safety and Health REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.
======================================
HCC:N1 Boiling Pt:B.P. Text:NOT GIVEN Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Decomp Temp:Decomp Text:NOT GIVEN Vapor Pres:NOT GIVEN Vapor Density:NOT GIVEN Spec Gravity:NOT GIVEN Viscosity:NOT GIVEN Evaporation Rate & DIVEN Solubility in Water:NOT GIVEN Appearance and Odor:PRODUCTS ARE SOLID METALS SHAPED AS WIRE OF VARIOUS DIAMETERS AND FORMS. Percent Volatiles by Volume:NIL
========= Stability and Reactivity Data =========
Stability Indicator/Mat

IFIED BY MANUFACTURER.

erials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:CARBON MONOXIDE, OZONE, OXIDES OF
NITROGEN, OXIDES OF METALS, CHROMATES, FLUORIDES, COMPLEX METALLICS

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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