

KESSLER STANLEY AND COMPANY INC. -- WELDING RODS -- 3439-00-166-9584

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

Product ID:WELDING RODS

MSDS Date:01/01/1987

FSC:3439

NIIN:00-166-9584

MSDS Number: BMPYQ

=== Responsible Party ===

Company Name:KESSLER STANLEY AND COMPANY INC.

Address:103 QUEENS SR

Box:340

City:KING OF PRUSSIA

State:PA

ZIP:19406-3518

Country:US

Info Phone Num:215-242-1100

Emergency Phone Num:215-242-1100

CAGE:6P736

=== Contractor Identification ===

Compan

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Box:City:KING OF PRUSSIA

State:PA

ZIP:19406-3518

Country:US

Phone:215-242-1100

CAGE:6P736

===== Composition/Information on Ingredients =====

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Other REC Limits:NONE SPECIFIED

OSHA PEL:5 MG/M3

ACGIH TLV:10 MG/M3 AS FE2O3

Ingred Name:C

HRONIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
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:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Other REC Limits:NONE SPECIFIED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400
000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:NIOBIUM
CAS:7440-03-1
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
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:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15

MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:TITANIUM, METAL
CAS:7440-32-6
RTECS #:XR1700000
Other REC Limits:NONE SPECIFIED

Ingred Name:VANADIUM (SARA III)
CAS:7440-62-2
RTECS #:YW1355000
Other REC Limits:NONE SPECIFIED
OSHA PEL:C,0.5 MG V2O5/M3 RD
ACGIH TLV:0.05 MG V2O5/M3;9293

Ingred Name:TUNGSTEN
CAS:7440-33-7
RTECS #:YO7175000
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3/ 10 STEL
ACGIH TLV:5 MG/M3/10 STEL;9192

===== Hazards Identification =====
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Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ELECTRIC ARC-WELDING MAY CREATE ONE OR
MORE OF THE FOLLOWING HEALTH HAZARDS: FUMES AND GASES CAN BE
DANGEROUS TO YOUR HEALTH. ARC RAYS CAN INJURE EYES AND BURN SKIN.
ELECTRIC SHOCK CAN KILL.
Explanation of Carcinogenicity:THIS MATERIAL CONTAINS NICKEL AND
CHROMIUM.
Effects of Overexposure:SHORT-TERM OVEREXPOSURE TO WELDING F
UMES MAY
RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, OR DRYNESS OR
IRRITATION OF NOSE, THROAT, OR EYES, TIGHTNESS IN CHEST, FEVER AND
ALLERGIC REACTIONS. LONG- TERM OVEREXPOSURE MAY LEAD TO
SIDEROSISAND IS BELIEVED BY SOME INVESTIGATORS TO AFFECT PULMONARY
FUNCTION.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:REMOVE TO FRESH AIR, OBTAIN MEDICAL ATTENTION. EMPOLY FIRST

AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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

Extinguishing Media:AS APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:USE EXHAUST SYSTEM TO CLEAR WELDING FUMES

. SEE

AMERICAN STANDARD Z49.1-1933, SAFETY IN WELDING AND CUTTING
HANDBOOK, VOL. 1, CHAPTER 9, SAFE PRACTICES IN WELDING AND CUTTING
FOR ADDITIONAL SAFETY INFO RMATION.

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATORY OR AIR SUPPLIED
RESPIRATOR WHEN WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST
OR VENTILATION DOES NOT KEEP EXPOSURE BELOW THE RECOMMENDED
EXPOSURE LIMIT.

Ventilation:USE ENOUGH

VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH,
TO KEEP THE FUMES AND GAS FROM THE WORKER'S BREATHING ZONE.

Protective Gloves:WELDER'S GLOVES

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS

Other Protective Equipment:BODY PROTECTION TO PREVENT INJURY FROM
RADIATION.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NONE

===== Physical/Chemical Properties =====

HCC:N1

Appearance and Odor:NONE SPECIFIED BY MANUFACTURE

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE, UNLESS OTHERWISE SPECIFIED.

Stability Condition to Avoid:NONE, UNLESS OTHERWISE SPECIFIED.

Hazardous Decomposition Products:THE COMPOSITION AND QUALITY OF WELDING
FUMES AND GASES ARE DEPENDENT UPON THE METAL BEING WELDED, ETC.

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING
ENVIR

ONMENT. DISCARD ANY PRODUCT RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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