

KESSLER STANLEY AND COMPANY INC. -- WELDING RODS -- 3439-00-882-7351

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

Product ID:WELDING RODS

MSDS Date:01/01/1987

FSC:3439

NIIN:00-882-7351

MSDS Number: BMQHN

=== 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 ===

Company Name:KESSLER STANLEY AND COMPANY INC.

Address:103 QUEENS SR

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 SPECI

FIED
OSHA PEL:5 MG/M3
ACGIH TLV:10 MG/M3 AS FE2O3

Ingred Name:CHROMIUM (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 M
G/M3 DUST 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
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:15MG/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 =====

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 CHROMI

UM.

Effects of Overexposure:SHORT-TERM OVEREXPOSURE TO WELDING FUMES 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. EMPLOY 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 INFORMATION.

=====
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 MANUFACTURER.

=====
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

I Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.