

J W HARRIS CO INC -- 5356 BARE ROD OR WIRE -- 3439-00-221-9390

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

Product ID:5356 BARE ROD OR WIRE

MSDS Date:05/01/1991

FSC:3439

NIIN:00-221-9390

MSDS Number: BGVJD

=== Responsible Party ===

Company Name:J W HARRIS CO INC

Address:10930 DEERFIELD ROAD

City:CINCINNATI

State:OH

ZIP:45242

Country:US

Info Phone Num:(513) 891-2000

Emergency Phone Num:(800) 424-9300

CAGE:FO309

=== Contractor Identification ===

Company Name:J W HARRIS C

O INC

Address:10930 DEERFIELD RD

City:CINCINNATI

State:OH

ZIP:45242

Country:US

Phone:513-891-2000

CAGE:FO309

Company Name:J. W. HARRIS CO INC & HARRIS WELCO, DIVISION/J.W. HARRIS
CO

Address:1051 YORK RD

Box:City:KINGS MOUNTAIN

State:NC

ZIP:28086

Country:US

Phone:704-739-6421

CAGE:34920

Company Name:J. W. HARRIS CO., INC.

Address:10930 DEERFIELD ROAD

Box:City:CINCINNATI

State:OH

ZIP:45242-4110

Country:US

Phone:513-891-2000

CAGE:27911

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

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Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 25%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 40%
OSHA PEL:10 MG/CUM
ACGIH TLV:5 MG/CUM

Ingred Name:COPPER (DUST & MIST), BRONZE POWDER
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 10%
Other REC Limits:1 MG(CU)/M3 (DUST)
OSHA PEL:0.1 MG(CU)/M3 (FUME)
ACGIH TLV:0.2 MG/M3 (FUME)
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:MANG
ANESE, MN COMPOUNDS
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 5-20%
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Fraction by Wt: 4.5-5.5%

Ingred Name:CHROMIUM METAL, CHROMIUM, CHROME (SUSPECTED A1 HUMAN
CARCINOGEN BY IARC, NTP & ACGIH)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 5-20%
OSHA PEL:1 MG/CUM
ACGIH TLV:0.5 MG/CUM
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ZINC OXIDE
CAS:1314-13-2
RTECS #:ZH4810000
Fracti

on by Wt: 10%
OSHA PEL:15MG/M3 TDUST/5 FUME
ACGIH TLV:10MG/M3 TDUST; 9293

Ingred Name:TITANIUM (DRY POWDER) (TI)
CAS:7440-32-6
RTECS #:XR1700000
Fraction by Wt: 10%

Ingred Name:ALUMINUM (POWDER)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: BALANCE
OSHA PEL:15 MG/CUM
ACGIH TLV:10 MG/CUM (DUST)

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Ac
ute and Chronic:INHALATION: DISCOMFORT, DIZZINESS,
NAUSEA, DRYNESS, THROAT IRRITATION, PULMONARY IRRITATION,
PNEUMOCONIOSIS, BENIGN SIDEROSIS, FEVER, BODY ACHE, & CHILLS.
EYES/SKIN: ARC RAYS FROM ELECTRIC OPERATIONS CAN RESULT IN INJURY.
Explanation of Carcinogenicity:CHROMIUM IS A SUSPECTED A1 HUMAN
CARCINOGEN BY ACGIH.
Effects of Overexposure:INHALATION: DISCOMFORT, DIZZINESS, NAUSEA,
DRYNESS, THROAT IRRITATION, PULMONARY IRRITATION, PNEUMOCONIOSIS,
BENIGN SIDEROSIS,
FEVER, BODY ACHE, & CHILLS. EYES/SKIN: ARC RAYS
FROM ELECTRIC OPERATIONS CAN RESULT IN INJURY.
Medical Cond Aggravated by Exposure:INDIVIDUALS W/IMPAIRED PULMONARY
FUNCTIONS OR ILLNESS MAY HAVE SYMPTOMS AGGRAVATED BY FUME
IRRITANTS.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF BREATHING STOPS, PERFORM
ARTIFICIAL RESPIRATION. OBTAIN MEDICAL ATTENTION IN ALL CASES.

===== Fire Fighting Measure

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Flash Point:NON-FLAMMABLE

Unusual Fire/Explosion Hazard:WELDING ARC, OPEN FLAME, & SPARKS CAN
IGNITE COMBUSTIBLES.

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

Handling and Storage Precautions:ELECTRIC SHOCK FROM ARC WELDING
EQUIPMENT CAN KILL.

Other Precautions:TRAIN THE EMPLOYEE TO KEEP HIS HEAD OUT OF FUMES. ONE
RECOMMENDED WAY TO DETERMINE THE COMPOSITION & QUANTITY OF FUMES &
GASES TO WHICH WORKERS ARE EXPOSED IS TO TAKE AN
AIR SAMPLE IN THE
WORKERS' BREATHING ZONE.

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

Respiratory Protection:USE RESPIRABLE FUME OR AIR SUPPLIED RESPIRATORY
WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE >TLV.

Ventilation:LOCAL EXHAUST AT THE FLAME OR ARC TO KEEP FUMES & GASES TO
KEEP