

METCO INC.SUB OF THE PERKIN-ELMER CORP -- METCOLOY 5 WIRE -- 3439-01-212-0305  
===== Product Identification =====

Product ID:METCOLOY 5 WIRE

MSDS Date:08/02/1991

FSC:3439

NIIN:01-212-0305

MSDS Number: BLNLQ

=== Responsible Party ===

Company Name:METCO INC.SUB OF THE PERKIN-ELMER CORP

Address:1101-PROSPECT AVE

City:WESTBURY

State:NY

ZIP:11590

Country:US

Info Phone Num:516-334-1300

Emergency Phone Nu

m:516-334-1300/CHEMTREC 800-424-9300

CAGE:LO223

=== Contractor Identification ===

Company Name:METCO INC, SUB OF THE PERKIN-ELMER CORP

Address:1101 PROSPECT AVENUE

Box:City:WESTBURY

State:NY

ZIP:11590-2724

Country:US

Phone:516-334-1300

CAGE:39918

Company Name:METCO INC.SUB OF THE PERKIN-ELMER CORP

Address:1101-PROSPECT AVE

City:WESTBURY

State:NY

ZIP:11590

Country:US

Phone:516-334-1300

CAGE:LO223

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

Ingred Name:MANGANESE (SARA I

II)  
CAS:7439-96-5  
RTECS #:OO9275000  
Fraction by Wt: 8.5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:(C) 5 MG/M3 DUST  
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192

Ingred Name:SILICON  
CAS:7440-21-3  
RTECS #:VW0400000  
Fraction by Wt: 1%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CHROMIUM (SARA III)  
CAS:7440-47-3  
RTECS #:GB4200000  
Fraction by Wt: 18%  
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:IRON OXIDE  
CAS:1309-37-1  
RTECS #:NO7400000  
Fraction by Wt: 67.5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:10 MG/M3 (FE)  
ACGIH TLV:5 MG/M3(FE),B2; 9293

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of

Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE-INHALING NICKEL MAY CAUSE CANCERS OF THE LUNG & NASAL SINUSES.INHALING CHROMIUM MAY CAUSE IRRITATION AND/OR ULCERATION.INHALING MAGNESIUM OR IRON IS HAZARDOUS.SKIN CONTACT WITH NICKEL MAY CAUSE DERMATITIS.CHROMIUM MAY CAUSE SENSITIZATION.CHRONIC-INHALATION OF MAGNESIUM MAY CAUSE NEUROLOGICAL IMPAIRMENT.

Explanation of Carcinogenicity:THIS MATERIAL CONTAIN NICKEL AND CHROMIUM.

Effects of

Overexposure:INHALING NICKEL MAY CAUSE CANCERS OF THE LUNG & NASAL SINUSES. INHALING CHROMIUM MAY CAUSE IRRITATION AND/OR ULCERATION. INHALING MAGNESIUM OR IRON IS HAZARDOUS. SKIN CONTACT WITH NICKEL MAY CAUSE DER MATITIS. CHROMIUM MAY CAUSE SENSITIZATION. TARGET ORGANS: LUNGS, SKIN, CENTRAL NERVOUS SYSTEM, RESPIRATORY SYSTEM.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN DISORDERS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SE MATERIALS.

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

First Aid:GET MEDICAL CARE IN ALL CASES.EYES:FLUSH WITH WATER FOR 15 MINUTES,HOLDING EYELIDS OPEN.SKIN:WASH WITH SOAP & WATER.INHALATION:REMOVE TO FRESH AIR.PROVIDE CPR/OXYGEN IF NEEDED.INGESTION:CALL A DOCTOR.

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

Flash Point:NONE

Extinguishing Media:USE CLASS D FIRE EXTINGUISHER. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Fi

re Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. TREAT AS A METALLIC FIRE.

Unusual Fire/Explosion Hazard:MODERATE FIRE HAZARD IN THE FORM OF DUST WHEN EXPOSED TO FLAME. NICKEL AND SILICON ARE CLASSIFIED AS FLAMMABLE SOLIDS.

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

Spill Release Procedures:NOT RELEVANT FOR WIRE.

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

Handl

ing and Storage Precautions:STORAGE-STORE IN A CLEAN,COOL,DRY AREA AWAY FROM INCOMPATIBLE.PROTECT CONTAINERS FROM PHYSICAL DAMAGE.  
Other Precautions:NO FOOD, DRINK OR SMOKING IN WORK AREAS. WASH THOROUGHLY AFTER HANDLING. AVOID INGESTION, INHALATION AND EXCESSIVE SKIN CONTACT.

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

Respiratory Protection:A RESPIRATOR APPROVED BY NIOSH FOR DUST/FUMES/MISTS SHOULD BE WORN AT ALL TIME DURING THE THERMAL SPRAY PROCE

SS TO PROTECT OPERATOR FROM DUST AND FUMES. RESPIRATORS MAY ALSO BE WORN WHEN PRODUCT HANDL ING GENERATES DUST.

Ventilation:LOCAL EXHAUST VENTILATION

Protective Gloves:ALUMINIZED GLOVES DURING ARC SPRAYING

Eye Protection:OSHA APPROVED GOGGLES

Other Protective Equipment:INSTALL EYE WASH STATION. EAR PROTECTION MUST BE WORN DURING EXCESSIVE NOISE LEVELS. AN ALUMINIZED APRON WHILE SPRAYING.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. D

O NOT WEAR CONTAMINATED CLOTHING.

Supplemental Safety and Health

THE FOLLOWING LENS SHADES ARE RECOMMENDED FOR THE PROCESS INDICATED:

COMBUSTION SPRAYING SHADE 5, PLASMA SPRAYING UP TO 40 KW SHADE 10 AND GREATER THAN 60 KW SHADE 11. GOGGLES MAY BE APPROPRIATE DURIN G OTHER PHASES OF PRODUCT HANDLING.

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:2550F,1399C

Spec Gravity:7.8

Solubility in Water:NEGLIGIBLE

Appearance and Odor:

WIRE - NO ODOR

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

Stability Indicator/Materials to Avoid:YES

OXIDIZERS, ACID, SULFUR, NI(NO3)2, WOOD, COMBUSTIBLES

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES

Hazardous Decomposition Products:OZONE AND NITRIC OXIDE ARE FORMED BY PLASMA FLAME (INDEPENDENT OF POWDER).

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

Waste Disposal Methods:EMPTY PRODUCT CONTAINERS, PRODUCT WASTE AND CLEANING MEDI

**A SHOULD BE STORED AND DISPOSED OF IN ACCORDANCE WITH  
FEDERAL, STATE & LOCAL REGULATIONS**

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