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Product Identification
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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 Num:516-334-1300/CHEMTREC 800-424-9300

CAGE:LO223

=== Contractor I

dentification ===

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

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Composition/Information on Ingredients
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Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000

Fraction by Wt: 8.5%

Other R

EC 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:NON
E 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

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===== 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 Ac

ute 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 THESE MATERIALS.

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===== First Aid Measures =====
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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 =====
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Flash Point:NONE

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

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT A ND 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 =====
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Spill Release Procedures:NOT RELEVANT FOR WIRE.

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===== Handling and Storage =====
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Handling and Storage Precautions:STORAGE-STORE IN A CLEAN,COOL,DRY AR

EA

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 PROCESS TO PROTECT OPERATOR FROM DUST AND FUMES. RESPIRATORS MAY

ALSO BE WORN WHEN PRODUCT HANDLING 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. DO 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 DURING 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

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===== 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 MEDIA SHOULD BE STORED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL

L, STATE & LOCAL REGULATIONS

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