

METCO PERKIN-ELMER -- METCO 450, 450NS -- 3439-01-380-6723

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

Product ID:METCO 450, 450NS

MSDS Date:04/20/1993

FSC:3439

NIIN:01-380-6723

MSDS Number: BYCSC

=== Responsible Party ===

Company Name:METCO PERKIN-ELMER

Address:1101 PROSPECT AVENUE

Box:1006

City:WESTBURY

State:NY

ZIP:11590-0201

Country:US

Info Phone Num:516-334-1300;202-483-7616

Emergency Phone Num:516-334-1300;800-424-9300(CHEMTREC)

CAGE:FO877

=== 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 PERKIN-ELMER

Address:1101 PROSPECT AVENUE

Box:1006

City:WESTBURY

State:NY

ZIP:11590-0201

Phone:(516) 334-1300

CAGE:FO877

Company Name:SULZER METCO (US) INC

Address:1101 PROSPECT AVE

Box:City:WESTBURY

State:NY

ZIP:11590-2724

Country:US

Phone:516-334-1300

CAGE:01FK3

===== Composition/Information

on Ingredients =====

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 94% %
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: 5% %
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:ORGANIC BINDER
Fraction by Wt: 1% %
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:INHALATION MAY CAUSE PNEUMOCONIOSIS,
CANCERS OF THE LUNG AND NASAL SINUSES. PULMONARY, SKIN AND EYE
IRRITANT DUE TO ABRASIVE ACTION. MAY CAUSE DERMATITIS. MAY CAUSE
RESPIRATORY TRACT IRRITATION.
Explanation of Carcinogenicity:CONTAINS NICKEL A POSSIBLE HUMAN
CARC
INOGEN.
Effects of Overexposure:MAY CAUSE EYE IRRITATION, SKIN IRRITATION,
DERMATITIS, RESPIRATORY TRACT IRRITATION, PNEUMOCONIOSIS, POSSIBLE
LUNG AND/OR NASAL SINUS CANCER.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES: FLUSH WITH SUFFICIENT AMOUNTS OF WATER. IF IRRITATION
PERSISTS, CONSULT A PHYSICIAN. SKIN: IF IRRITATION OCCURS, WASH
WITH SOAP AND WATER TO REMOVE POWDER.

INHALATION: EXPOSE TO FRESH
AIR. CONSU LT PHYSICIAN IF IRRITATION OR RESPIRATORY DISTRESS
PERSISTS. INGESTION: CONSULT A PHYSICIAN.

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

Flash Point:NONE
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing Media:USE CLASS D FIRE EXTINGUISHER.
Fire Fighting Procedures:TREAT AS A METALLIC FIRE.
Unusual Fire/Explosion Hazard:FINE METAL DUSTS ARE FLAMMABLE AND MAY
EXPLODE WHEN EXPOSED TO HEAT, FLAME OR OXIDIZERS.
ALUMINUM IS A
FLAMMABLE SOLID, DON'T EXPOSE TO WATER OR MOISTURE.

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

Spill Release Procedures:VACUUM LOOSE POWDER ONLY WITH VACUUMS EQUIPPED
WITH HEPA FILTRATION. VACUUMS APPROPRIATE FOR USE WITH ALUMINUM
METALLIC SHOULD BE UTILIZED. WIPE THE AREA CLEAN. DO NOT USE WATER
FOR CLEAN UP OPERATION S. DO NOT SWEEP. AVOID GENERATING AIRBORNE
DUST.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLES. STORE
PRODUCT CONTAINERS IN WELL VENTILATED, CLEAN, COOL AND DRY AREA.
AVOID PHYSICAL DAMAGE.
Other Precautions:AVOID CONTACT OF MATERIAL WITH WATER OR OXIDIZERS. DO
NOT INGEST. AVOID INHALATION, PROLONGED OR REPEATED SKIN CONTACT OR
CONTACT WITH EYES.

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

Respiratory Protection:A RESPIRATOR APPROVED
BY NIOSH WITH FILTER
CARTRIDGES APPROVED FOR DUST/FUMES/MISTS SHOULD BE WORN AT ALL
TIMES DURING THERMAL SPRAY PROCESS TO PROTECT OPERATOR. RESPIRATORS
MAY ALSO BE WORN WHEN PROD UCT HANDLING GENERATES DUST.
Ventilation:USE ONLY WITH ADEQUATE LOCAL EXHAUST VENTILATION.
Protective Gloves:ALUMINIZED GLOVES DURING PROCESSING
Eye Protection:CHEMICAL WORKERS GOGGLES
Other Protective Equipment:HEARING PROTECTION. ALUMINIZED APRONS DURING
PROCESSING & OTHER APPROPRIATE PROTECTIVE CLOT

HING.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER
BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health
EYE WASH STATIONS ARE RECOMMENDED.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:1300-2800F

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:3.7

Solubility in Water:NEGATIVE

Appearance and Odor:POWDER, NO ODOR

Percent Volatiles by V

olume:NIL

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

Stability Indicator/Materials to Avoid:YES

OXIDIZERS, ACIDS, SULFUR, NI(NO₃)₂, COMBUSTIBLES.

Stability Condition to Avoid:WATER, MOISTURE, HEAT, FLAME.

Hazardous Decomposition Products:OZONE AND NITRIC OXIDE ARE FORMED BY
PLASMA FLAME. CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES,
SULFUR OXIDES.

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

Waste Disposal Methods:DISPOSE OF IN ACCO
RDANCE WITH APPLICABLE LOCAL,
STATE, AND FEDERAL REGULATIONS.

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