N/P -- METCO 313NS -- 3439-01-380-4322

Product ID:METCO 313NS MSDS Date:01/01/1987

FSC:3439

NIIN:01-380-4322

MSDS Number: BYCCZ === Responsible Party ===

CAGE:39918

=== 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

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

Ingred Name: ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt: 40% %

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000 Fraction by Wt: 5.5% %

Other REC Limits: NONE RECOMMENDED

OSHA PEL:10 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name: SILICA, CRYSTALLINE - QUARTZ

CAS:14808-60-7 RTECS #:VV7330000 Fraction by Wt: .50% MAX

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1 MG/M3 RDUST

ACGIH TLV:0.1 MG/M3 RDUST;9192

Ingred Name: SILICA, CRYSTALLI

NE - FUSED CAS:60676-86-0 RTECS #:VV7328000 Fraction by Wt: 1.0% MAX

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1 MG/M3 RDUST

ACGIH TLV:0.1 MG/M3 RDUST;9192

Ingred Name: GRAPHITE, NATURAL

CAS:7782-42-5

RTECS #:MD9659600 Fraction by Wt: 45.5% %

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2.5 MG/M3 RDUST ACGIH TLV:2 MG/M3 RDUST; 9192

Ingred Name: ORGANIC BINDER

Fraction by Wt: 9% %

Other REC Limits: NONE RECOMMENDED

LD50 LC50 M

ixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:INHALATION MAY CAUSE PNEUMOCONIOSIS, SILICOSIS, PULMONARY FIBROSIS, DEPRESSION OF CENTRAL NERVOUS SYSTEM, CANCERS OF THE LUNG AND NASAL SINUSES. PULMONARY, SKIN AND EYE IRRITANT DUE TO ABRASIVE ACTION. MAY CAUSE DERMATITIS.

Explanation of Carcinogenicity: CONTAINS NICKEL, CRYSTALLINE SILICA POSSIBLE

HUMAN CARCINOGENS.

Effects of Overexposure:MAY CAUSE EYE IRRITATION, SKIN IRRITATION, DERMATITIS, RESPIRATORY TRACT IRRITATION, PNEUMOCONIOSIS, POSSIBLE LUNG AND/OR NASAL SINUS CANCER, SHORTNESS OF BREATH, COUGH, DECREASED CHEST EXPANSION, LES SENED CAPACITY FOR WORK, HEADACHE, DIZZINESS, INCOORDINATION, DROWSINESS.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

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. CONSULT PHYSICIAN IF IRRITATION OR RESPIRATORY DISTRESS PERSISTS. INGESTION: CONSULT A PHYSICIAN.

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Flash Point:NONE
========== Accidental Release Measures ==========
Spill Release Procedures:VACUUM LOOSE POWDER ONL Y 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.
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Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLES. STORE PRODUCT CONTAINERS IN WELL VENTILATED, CLEAN, COOL AND DRY ARE A.
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. RESPIRATOR

RS MAY ALSO BE WORN WHEN PR

OD UCT HANDLING GENERATES DUST.

Ventilation: USE ONLY WITH ADEQUATE LOCAL EXHAUST VENTILATION.

Protective Gloves: ALUMINIMIZED GLOVES DURING PROCESSING

Eye Protection: CHEMICAL WORKERS GOGGLES

Other Protective Equipment: HEARING PROTECTION. ALUMINIZED APRONS DURING PROCESSING & OTHER APPROPROPRIATE PROTECTIVE CLOTHING.

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.
========= Stability and Reactivity Data ===========
Hazardous Decomposition Products:OZONE AND NITRIC OXIDE ARE FORMED BY PLASMA FLAME.
======== Disposal Considerations =============
Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
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