

METCO DIVISION -- WHITE ALUMINA POWDER, 105SF -- 3439-01-329-5393

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

Product ID:WHITE ALUMINA POWDER, 105SF

MSDS Date:01/18/1988

FSC:3439

NIIN:01-329-5393

MSDS Number: BPZNK

=== Responsible Party ===

Company Name:METCO DIVISION

Address:1101 PROSPECT AVENUE

City:WESTBURY

State:NY

ZIP:11590

Country:US

Info Phone Num:516-334-1300

Emergency Phone Num:516-824-2315

CAGE:F

O765

=== Contractor Identification ===

Company Name:METCO DIVISION

Address:1101 PROSPECT AVENUE

City:WESTBURY

State:NY

ZIP:11590

Phone:(516) 334-1300

CAGE:FO765

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:ALPHA-ALUMINA (ALUMINUM OXIDE)

CAS:1344-28-1

RTECS #:BD1200000

OSHA PEL:15 MG/M3 TDUST

ACGI

H TLV:10 MG/M3 TDUST; 9293

Ingred Name:SILICA, CRYSTALLINE - TRIDYMITE; (SILICON DIOXIDE)

CAS:15468-32-3

RTECS #:VV7335000

OSHA PEL:SEE TABLE Z3

ACGIH TLV:0.05 MG/M3 RDUST9293

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:ALUMINUM:SOME RECORD OF LUNG DMG DUE TO INHAL OF FIN

ELY DIVIDED ALUMINUM OXIDE PARTICLES. HOWEVER, EFT (KNOWN AS SHAVERS DISEASE) IS COMPLICATED BY PRESENCE IN INHALED AIR OF SILICA & OXIDES OF IRON; A NUISANCE PARTICULATE. ALUMINUM ALONE NOT GENERALLY REGARDED AS INDUSTRIAL POISON. INHAL OF FINELY (EFTS OF OVEREXP)

Explanation of Carcinogenicity:CRYSTALLINE SILICA TRIDYMITE- GROUP 2A (IARC), ANTICIPATED TO BE A CARCINOGEN (NTP)

Effects of Overexposure:HLTH HAZ:DIVIDED ALUMINUM POWDER HAS BEEN REPORTED AS A CAUSE OF PRELI

MINARY FIBROSIS. MAY BE IMPLICATED BY ALZHEIMERS DISEASE. SILICON:DOES NOT OCCUR FREE IN NATURE, BUT IS FORMED AS SILICON DIOXIDE (SILICA) & AS VARIOUS SILICATES. EYE:POSS IRRIT. SKIN:POSS DERMATITIS. INHAL:RESP IRRIT. INGEST:NOT APPLICABLE.

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

First Aid:EYE:FLOOD W/WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CALL MD. SKIN:WASH W/SOAP & WATER TO REMOVE POWDER. IF IRRITATION PERSISTS, CALL MD.

INHAL:EXPOSE TO FRESH AIR.

INGEST:CONSULT MD.

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

Flash Point:NONE

Extinguishing Media:USE CLASS D FIRE EXTINGUISHER.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:MODERATE FIRE HAZARD IN THE FORM OF DUST WHEN EXPOSED TO FLAME.

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

Spill Release Procedures:MATERIAL SPILLED ONTO FLOOR M

AY BECOME

AIRBORNE BY NORMAL PLANT ACTIVITY. GOOD HOUSEKEEPING, BY SWEEPING AREA CLEAN IS NECESSARY TO REMOVE MATERIALS FROM BECOMING A SOURCE OF AIR CONTAMINATION.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:AVOID EXCESSIVE SKIN CONTACT AND ORAL INGESTION.

Other Precautions:CHLORINATED HYDROCARBON VAPORS PRESENT NEAR PLASMA FLAME MAY BE DECOMPOSED TO PHOSGENE. ADEQ EXHAUST SYSTEM REQUIRED

TO AVOID EFT OF DUST,FUMES & MIST WHICH MAY BE GENERATED BY THERMAL SPRAYING. DO NO T PERMIT SPRAY DUST TO ENTER (SUPP DATA)

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

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR FOR DUST, FUMES, MISTS SHOULD BE WORN AT ALL TIMES DURING THERMAL SPRAY PROCESS TO PROTECT OPERATOR FROM DUST & FUMES.

Ventilation:VENTILATION EQUIPMENT DESIGNED TO CREATE AN AIR VELOCITY OF 200 FPM.

Protect

ive Gloves:ALUMINIZED DURING PLASMA SPRAY PROCESS.

Eye Protection:FOLLOWING LENS SHADES RECOMM (SUPP DATA)

Other Protective Equipment:ALUMINIZED APRON DURING PLASMA SPRAY PROCESS.EAR PROT WHEN SUBJECTED TO EXCESSIVE NOISE LEVELS. EYE WASH STATION RECOMM.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

OTHER PREC:EYES, MOUTH, CUTS, SCRATCHES OR OPEN WOUNDS. EYE PROT:FOR PROCESS INDICATED:COMBUSTION SPRAYING SHADE #5, PLASMA SPRAYING UP TO 40

KW SHADE #9, 40-60 KW SHADE #10 AND GREATER THAN 60 KW SHA DE #11.

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

Melt/Freeze Pt:M.P/F.P Text:3500-4000

Spec Gravity:1.3-1.7

Solubility in Water:NEGLIGIBLE

Appearance and Odor:POWDER; NO ODOR.

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

Stability Indicator/Materials to Avoid:YES

HOT CHLORINATED RUBBER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:

OZONE & NITRIC OXIDE ARE FORMED BY

PLASMA FLAME (INDEPENDENT OF POWDER; SIMILAR TO WELDING FUMES).

Conditions to Avoid Polymerization: AVOID EXCEEDING TLV LIMIT OF 30  
MG/M3 & 0.2 MG/M3 FOR NITRIC OXIDE & OZONE RESPECTIVELY.

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

Waste Disposal Methods: DISPOSE OF I/A/W FEDERAL, STATE AND LOCAL  
REGULATIONS .

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