

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 .

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by
elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.