

SULZER METCO/WESTBURY/INC -- METCO 404,404NS,AMDRY 995 (METAL POWDER) --  
3439-00-923-3324

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

Product ID:METCO 404,404NS,AMDRY 995 (METAL POWDER)

MSDS Date:05/09/1996

FSC:3439

NIIN:00-923-3324

MSDS Number: CDXKZ

=== Responsible Party ===

Company Name:SULZER METCO/WESTBURY/INC

Address:1101 PROSPECT AVE

Box:1006

City:WESTBURY

State:NY

ZIP:11590-0201

Country:US

Info

Phone Num:516-334-1300

Emergency Phone Num:800-424-9300(CHEMTREC)

CAGE:01FK3

=== 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: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 Na

me:NICKEL (SARA 313) (CERCLA)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 80%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9596

Ingred Name:ALUMINUM (SARA 313)  
CAS:7429-90-5  
RTECS #:BD0330000  
Fraction by Wt: 20%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 DUST  
ACGIH TLV:10 MG/M3 DUST; 9596

===== 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:NI:INHAL IRRIT RESP SYS,CNS  
DEPRESS,CAN OF LUNG/NASAL SINUSES.INGEST IRRIT GI TRACT,LOSS OF  
MUSCULAR COORD,CONFUSION,CONVULS.SKIN DERM.EYE IRRIT.AL:INHAL  
PNEUMOCONIOSIS.INGEST IRRIT GI TRACT.PULM/SKIN /EYE IRRIT DUE TO  
ABRASIVE ACTION.UNDERNORMAL USE/CONDITIONS AL OXIDE MAY BE FORMED.  
Explanation of Carcinogenicity:PER MSDS:NI ACGIH A1,IARC GROUP 1,NTP  
ANTICIPATED.  
Effects of Over  
exposure:EYE:POSSIBLE IRRIT. SKIN:POSSIBLE DERM,IRRIT.  
INHAL:POSSIBLE IRRIT TO RESP SYSTEM. INGEST:POSSIBLE IRRIT TO GI  
TRACT,LOSS OF MUSCULAR COORDINATION,CONFUSION,CONVULSIONS.  
Medical Cond Aggravated by Exposure:CONSULT PHYSICIAN. TARGET  
ORGANS:RESPIRATORY SYS,CNS,GI TRACT,SKIN,EYES.

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

First Aid:EYE:FLUSH W/WATER FOR @LEAST 15-20MINS WHILE HOLDING EYELID  
OPEN.IRRIT PERSISTS CONSULT PHYSICIAN.SKIN:WASH W/SOAP/

WATER.IRRIT

PERSIST CONSULT PHYSICIAN.INHAL:EXPO TO FRESH AIR.CONSULT PHYSICIAN  
IF IR RIT/RESP DISTRESS PERSISTS.INGEST:CONSULT PHYSICIAN.

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

Flash Point:NA

Autoignition Temp:Autoignition Temp Text:NP

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:USE CLASS D FIRE EXTINGUIGNER.

Fire Fighting Procedures:TREAT AS METALLIC FIRE.USE NIOSH/MSHA APPROVED  
SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING IF

INVOLVED IN FIRE.

Unusual Fire/Explosion Hazard:FINE METAL DUST FLAMM,MAY EXPLO WHEN EXPO  
TO HEAT/FLAME/OXIDIZERS.ALUMINUM IS FLAMM SOLID,DO NOT EXPO TO  
WATER OR MOISTURE.

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

Spill Release Procedures:VACUUM LOOSE POWDER ONLY W/VACUUMS EQUIPPED  
W/HEPA FILTRATION.VACUUMS APPROPRIATE FOR USE W/METALLIC DUSTS  
SHOULD BE UTILIZED.WIPE AREA CLEAN.DON'T USE WATER FOR CLEAN UP  
OPERATIONS.DO NOT SWEEP.AVOID GENERA  
TING AIRBORNE DUST.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLES.STORE  
PRODUCT CNTNRS IN WELL-VENTI,CLEAN,COOL,DRY AREA.STORE IN MANNER TO  
MIN PUNCTURES/BREAKAGE OF CNTNR.

Other Precautions:AVOID INGEST,INHAL,EXCESSIVE SKIN CONTACT.

LENSES:COMBUST SPRAY SHADE #5,PLASMA SPRAY UP TO 40KW SHADE  
#9,40-60KW SHADE #10,GREATER THAN 60KW SHADE #11.GOG  
G APPROPRIATE  
DURING OTHER PHASES OF PROD HND LG.

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

Respiratory Protection:RESPIRATOR APPROVED BY NIOSH W/FILTER CARTRIDGES  
APPROVED FOR DUST/FUMES/MISTS SHOULD BE WORN AT ALL TIMES DURING  
THERMAL SPRAY PROCESS TO PROTECT FROM DUST/FUME EXPO.RESPIRATORS  
MAY ALSO BE WORN WHEN PROD HNDLG.

Ventilation:PRODUCT SHOULD BE USED W/APPROPRIATE LOCAL EXHAUST  
VENTILATION PROVIDED.

Protective Gloves:AL FOR PLASMA SPRAY

PROCESS,RUBB/OTHER

Eye Protection:LENS SHADES FOR PROCESS(SEE OTHER PRECA)

Other Protective Equipment:EYEWASH STATION(S),WASH FACIL.EAR PROT WHEN  
SUBJ TO EXCESS NOISE.AL APRON FOR PLASMA SPRAY.OTHER APPRO CLOTH AS  
APPROPRI

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

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

HCC:N1

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:M.P/F.P Text:3000F,1649C

Decomp Temp:Decomp Text:NP

Vapor Pres:NA

Vapor Density:NA

Spec Gravity:3.34

pH:NA

Viscosity:NP

Evaporation Rate & Reference:NA

Solubility in Water:INSOLUBLE

Appearance and Odor:POWDER, NO ODOR.

Percent Volatiles by Volume:NA

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

NI W/ACIDS,SULFUR,SELENIUM,WOOD,OTHER COMBUSTIBLE,NI NITRATE.AL  
W/STRONG OXIDIZERS,ACIDS,HALOGENATED HYDROCARBONS.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:OZONE/NITRIC OXIDE FORM BY PLASMA  
FLAME(SIMILAR TO WELD FUMES).ACTION INDEPENDENT OF METAL POWDER.

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

Waste Disposal Methods:EMPTY PRODUCT CNTNR/PRODUCT WASTE/CLEANING MEDIA  
SHOULD BE STORED/DISPO OF ACCORDING TO APPROPRIATE LOC/STATE/FED  
REG GUIDELINES.CONTAINS CHEM SUBJ TO REPORTING REQMTS UNDER SEC 313  
SARA/40CFR372:ALUM INUM.

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