

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 Pho

ne 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 Name:

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 Overexp

posure: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/WAT

ER.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 GENERATING 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.GOGG A
PPROPRIATE
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 PRO

CESS,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

Va

por 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.

Haz

ardous 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.

Disclaimer (provided with this information by the com

piling 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.