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PRAXAIR SURFACE TECHNOLOGIES INC -- NI-332 (PRODUCT CODE 036081-05)

3439-01-426-5219

Product ID:NI-332 (PRODUCT CODE 036081-05)

MSDS Date:04/01/1993

FSC:3439

NIIN:01-426-5219

Status Code:A

MSDS Number: CJSGB === Responsible Party ===

Company Name: PRAXAIR SURFACE TECHNOLOGIES INC

Address:1555 MAIN STREET

City: INDIANAPOLIS

State:IN

ZIP:46224-3283

Country:US

In

fo Phone Num:317-240-2650

Emergency Phone Num:317-240-2209 Preparer's Name:DELMAR BEIGHT

Chemtrec Ind/Phone:(800)424-9300

CAGE:0FGH2

=== Contractor Identification ===

Company Name: PRAXAIR SURFACE TECHNOLOGIES INC

Address:1555 MAIN STREET Box:City:INDIANAPOLIS

State:IN

ZIP:46224-3283

Country:US

Phone:317-240-2650

CAGE:0FGH2

Company Name: STARGHILL TECHNOLOGIES CORP

Address:3850 OAKMAN BLVD

Box:City:DETROIT

State:MI

ZIP:48204-1119

Country:US

Phone:313-933-4141

Contract Num:SP0490-95-D-4037

CAGE:0VY

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

Ingred Name:COBALT CAS:7440-48-4 RTECS #:GF8750000 Minumum % Wt:5. Maxumum % Wt:20. OSHA PEL:0.1 MG/M3

ACGIH TLV:0.02 MG/M3

Ingred Name:NICKEL CAS:7440-02-0 RTECS #:QR5950000 Minumum % Wt:50. Maxumum % Wt:75. OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

Ingred Name:CHROMIUM
CAS:7440-47-3
RTECS #:GB4200000
Minumum % Wt:5.
Maxumum % Wt:20.
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ALUMINIUM CAS:7429-90-5 RTECS #:BD0330000 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:TITANIUM CAS:7440-32-6 RTECS #:XR1700000 Minumum % Wt:1. Maxumum % Wt:5.

Ingred Name:TUNGSTEN CAS:7440-33-7 RTECS #:YO7175000 Minumum % Wt:1. Maxumum % Wt:5. ACGIH TLV:5 MG/M3 ACGIH STEL:10 MG/M3

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Minumum % Wt:1. Maxumum % Wt:5. ACGIH TLV:10 MG/M3 ame:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Minumum % Wt:1.
Maxumum % Wt:5.
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ACUTE- SKIN: MAY CAUSE ALLERGIC
DERMATITIS IN SUSCEPTABLE INDIVIDUALS, WHICH USUALLY OCCURS IN THE
FOLDS OF THE SKIN. EYES: MAY CAUSE IRRITATION. INGESTION: MA

CAUSE NERVOUS SYSTEM DEPRESSION. INH ALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION & CENTRAL NERVOUS SYSTEM DEPRESSION. MAY ALSO CAUSE INTERSTITIAL PNEUMONITIS AND SENSITIZATION OF THE RESPIRATORY TRACT IN SUSCEPTIBLE INDIVIDUALS. CHR ONIC- MAY CAUSE SENSITIZATION IN SUSCEPTABLE INDIVIDUALS. CAN CAUSE CORNEAL DAMAGE, POLYCYTHEMIA, HYPERPLASIA OF THE THYROID GLAND, & DAMAGE TO ALPHA CELLS OF THE PANCREAS. INHALATION MAY CAUSE EMPHYS EMA OR PULMONARY FIBROTIC

DISEASE.

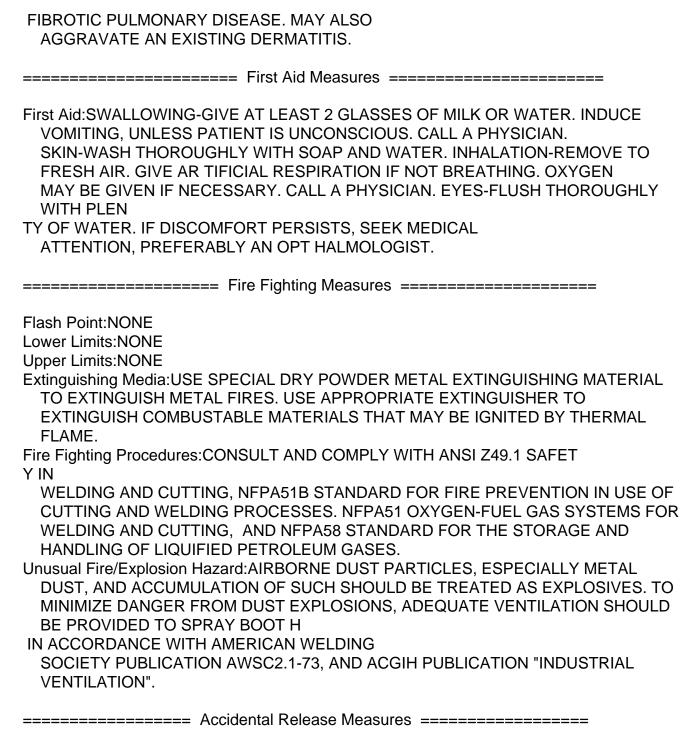
Explanation of Carcinogenicity:NICKEL IS LISTED AS A PROBABLE HUMAN CARCINOGEN. CHROMIUM IS LISTED AS A HUMAN CARCINOGEN. NICKEL & CHROMIUM HAVE BEEN DETERMINED TO CAUSE CANCER IN EXPERIMENTAL ANIMALS (IARC, NTP).

Effects of Overexposure:SKIN-MAY CAUSE REDNESS & PAPULAR FORMATION IN SUSCEPTIBLE INDIVIDUALS, WHICH USUALLY OCCURS IN THE FOLDS OF THE SKIN. MAY CAUSE ULCERS PROGRESSING TO DRY & SCALY SKIN, FEVER. EYE-MAY CAUSE IRRITATION, EXPERIENCED AS REDNESS & E

XCESS REDNESS

OF THE CONJUNCTIVA. SWALLOWING-MAY CAUSE NAUSEA, ABDOMIAL PAIN, VOMITING, DIARRHEA, CNS DEPRESSION, & BURNING SENSATION. INHALATION-MAY CAUSE RESPIRATORY TRAC T IRRITATION, WITH CHEST PAIN, VOMITING, DIARRHEA, BURNING SENSATION, & CNS DEPRESSION. CHRONIC SKIN CONTACT MAY SPREAD TO THE WHOLE BODY WITH LESIOINS, ITCHING, SORENESS, BURNING SENSATION AND REDNE SS.

Medical Cond Aggravated by Exposure:BREATHING OF DUST MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR



Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINST

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

Other Precautions: CAUTION: WHEN THERMAL SPRAYING - ELECTRICITY CAN

HAZARDS AND DISPOSE OF PER WASTE DISPOSAL METHOD.

CAUSE FATAL SHOCK! DO NOT TOUCH LIVE ELE

BURN EYES AND SKIN! WEAR RECOMMENDED EYE AND BODY PROTECTION. FUMES, GAS, & DUST CA N HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION AND WEAR RESPIRATORS.
===== Exposure Controls/Personal Protection =======
Respiratory Protection:DEPENDS UPON SPECIFIC USE, CONDITION, AND LOCATION. IF THERE IS DUSTINESS, WEAR RESPIRATOR SELECTED PER OSHA 1910.134, AND OSHA 29 CFR 1910.252 AND ANSI Z49.1 Ventilation:LOCAL DUST PICK UP AND VENTILATION RECOMMENDED. Protective Gloves:NOT REQUIRED.
Eye Protection:WHEN DUSTY USE GOGGLES PER OSHA 1910.13. Other Protective Equipment:SEE ANSI Z49.1, ANSI Z87.1, ANSI Z88.2 FOR HELMETS, FACE SHIELDS AND GOGGLES. Supplemental Safety and Health
CAUTION: WHEN THERMAL SPRAYING-ELECTRICITY CAN CAUSE FATAL SHOCK! DO NOT TOUCH LIVE ELECTRICAL PARTS! ARC RAYS CAN BURN EYES AND SKIN! WEAR RECOMMENDED EYE AND BODY PROTECTION. FUMES, GAS, AND DUST CAN HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION
AND WEAR RESPIRATORS.(OTHER INFO)
========= Physical/Chemical Properties =========
HCC:N1 Boiling Pt:B.P. Text:NONE Vapor Density:N/VOLATILE Appearance and Odor:DUSTY YELLOW GRAY POWDER
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES NONE KNOWN
Stability Condition to Avoid:NONE KNOWN Hazardous Decomposition Products:WHEN THERMAL SPRAYING, DECOMPOSITION PRODUCTS WILL VARY WITH OPERATING CONDITIONS. DEC OMPOSITION
PRODUCTS OF NORMAL OPERATION FROM THIS THERMAL SPRAY POWDER (OXIDES, SUB-OXIDES, ETC)
======= Disposal Considerations ==========
Waste Disposal Methods:DISPOSE OF WASTE PERS LOCAL, STATE, AND FEDERAL REGULATIONS.
========= MSDS Transport Information ===========
Transport Information:PROPER SHIPPING NAME: METAL ALLOY POWDER NOI ITEM 136500 SUB 1.
========= Regulatory Information ===========
SARA

CTRICAL PARTS! ARC RAYS CAN

Title III Information:7440-48-4, COBALT,