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## PRAXAIR SURFACE TECHNOL INC SPECIALTY POWDERS BUSI -- 036022-10 NI-122 3439-01-426-3231

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

Product ID:036022-10 NI-122

MSDS Date:06/22/1994

FSC:3439

NIIN:01-426-3231

MSDS Number: BZXWR === Responsible Party ===

Company Name: PRAXAIR SURFACE TECHNOL INC SPECIALTY POWDERS BUSI

Address:1555 MAIN STREET

City:INDIANAPOLIS

State:IN

ZIP:46224-3283

Country:US

Info Phone N

um:317-240-2650

Emergency Phone Num:317-240-2209 Preparer's Name:MICHELLE ALEXANDER

CAGE:GO132

=== Contractor Identification ===

Company Name: PRAXAIR SURFACE TECHNOL INC SPECIALTY POWDERS BUSI

Address:1555 MAIN STREET

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ZIP:46224-3283

Country:US

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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

====== Composition/Information o

n Ingredients =======

Ingred Name:NICKEL (SUSPECTED ANIMAL/HUMAN CARCINOGEN BY IARC GROUP 2B, SUSPECTED CARCINOGEN BY NTP) \*96-2\*

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 50-75%

Other REC Limits: 1 MG/CUM

OSHA PEL:1 MG/CUM

ACGIH TLV:0.05 MG/CUM IC

Ingred Name: CHROMIUM METAL, CHROMIUM, CHROME (KNOWN CARCINOGEN BY NTP;

IARC CARC - GROUP 3) \*96-2\*

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 5-20% ACGIH TLV:0.5 MG/CUM

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:ALU MINUM \*96-2\* CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: 5-20% OSHA PEL:15 MG/CUM

ACGIH TLV:10 MG/CUM (DUST)

Ingred Name:SILICON

CAS:7440-21-3

RTECS #:VW0400000 Fraction by Wt: 1-5% ACGIH TLV:10 MG/CUM

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic: SKIN: ALLERGIC DERMATITIS, PAPULAR

FORMATION IN SUSCEPTABLE INDIVIDUALS,

MAY CAUSE ULCERS. EYES: IRRITATION W/REDNESS OF THE CONJUNCTIVA. INGESTION: CNS DEPRESSION/BURNING SENSATION. INHALATION: RESPI RATORY TRACT IRRITANT & SENSITIZATION, BURNING SENSATION, CNS DEPRESSION, INTERSTITIAL PNEUMONITIS. (SEE SUPP) Explanation of Carcinogenicity: SEE INGREDIENTS. Effects of Overexposure: REDNESS, DRY/SCALY SKIN, IRRITATION, NAUSEA, ABDOMINAL PAIN, VOMITING, DIARRHEA, BURNING SENSATION, CHEST PAIN, LESIONS, ITCHING, SORENESS Medical Cond Aggravated b y Exposure: ASTHMA & INFLAMMATORY/FIBROTIC PULMONARY DISEASE, EXISTING DERMATITIS. First Aid:INGESTION: GIVE 2 GLASSES OF MILK/WATER. INDUCE VOMITING IF CONSCIOUS. SKIN: WASH THOROUGHLY W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NECESSARY. EYES: FLUSH THOROUGHLY W/PLE NTY OF WATER, OBTAIN MEDICAL ATTENTION IN ALL CASES, NOTES TO PHYSICIAN: NO SPECIFIC ANTIDOTE. TREATMENT OF OVEREXPO SURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS & THE CLINICAL CONDITIONS. Flash Point:NONE Extinguishing Media: DRY POWDER METAL EXTINGUISHING MATERIAL FOR METAL FIRES. USE APPROPRIATE EXTINGUISHER FOR COMBUSTIBLE MATERIALS. Fire Fighting Procedures: USE NFPA51 OXYGEN-FUEL GAS SYSTEMS FOR WELDING & CUTTING & NFPA58 STANDARD FOR THE STORAGE & HANDLING OF LIQUIDFIED PETROLEUM GASES. Unusual Fire/Explosion Haza ACCUMULATION SHOULD BE TREATED AS EXPLOSIVES. ========= Accidental Release Measures ============ Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINST HAZARDS.

rd:AIRBORNE DUST PARTICLES; METAL DUST &

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

Handling and Storage Precautions: WHEN THERMAL SPRAYING-ELECTRICITY CAN CAUSE FATAL SHOCK. DON'T TOUCH LIVE ELECTRICAL PARTS. WEAR RECOMMENDED EYE & BODY PROTECTION.

Other Precaut

ions:ARC RAYS CAN BURN EYES. FUMES, GAS & DUST CAN HARM YOUR HEALTH. PROVIDE VENTILATION & WEAR RESPIRATOR IF REQUIRED. ALWAYS SPRAY W/ENOUGH VENTILATION. AREA & SPARKS DURING SPRAYING CAN BE A SOURCE OF I GNITION OF COMBUSTIBLE MATERIALS.

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

Respiratory Protection:IF THERE IS DUSTINESS, WEAR RESPIRATOR SELECTED PER OSHA 1910.134 & OSHA 29 CFR 1910.252 & ANSI Z49.1.

Ventilation:LOCAL DUST PICK UP & VENTILATION REC

OMMENDED.

Protective Gloves: NOT REQUIRED

Eye Protection: WHEN DUSTY, USE GOGGLES PER OSHA 1910.13

Supplemental Safety and Health

CHRONIC EXPOSURE CAN CAUSE CORNEAL DAMAGE, POLYCYTHEMIA, HYPERPLASIA OF THE THYROID GLAND & DAMAGE TO THE ALPHA CELLS OF THE PANCREAS.

REPEATED INHALATION MAY CAUSE EMPHYSEMA/PULMONARY FIBROTIC DISEAS E.

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

HCC:N1

Boiling Pt:B.P. Text:NONE

Appearance and Odor: DUSTY YELLOW GRAY POWDER

Percent

Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:ELECTRICAL PARTS/EQUIPMENT, ARC RAYS Hazardous Decomposition Products:OXIDES, SUB-OXIDES & COMPLEX OXIDES OF MATERIALS

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

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