

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 ===

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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: RESPIRATORY 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.

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

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/PLENTY OF WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES. NOTES TO PHYSICIAN: NO SPECIFIC ANTIDOTE. TREATMENT OF OVEREXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS & THE CLINICAL CONDITIONS.

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

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 LIQUIDIFIED PETROLEUM GASES.

Unusual Fire/Explosion Hazard:

AIRBORNE DUST PARTICLES; METAL DUST & ACCUMULATION SHOULD BE TREATED AS EXPLOSIVES.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINST HAZARDS.

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===== 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 Precautions:

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.

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===== 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 RECOMMENDED.

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 DISEASE.

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

HCC:N1

Boiling Pt:B.P. Text:NONE

Appearance and Odor:DUSTY YELLOW GRAY POWDER

Percent

Volatiles by Volume:0

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===== 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

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

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

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