

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 Phon
e Num: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/Informatio

n on 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:
ALUMINUM *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 INDIVIDUA

LS, 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 Aggravate

d by Exposure:ASTHMA & INFLAMMATORY/FIBROTIC PULMONARY DISEASE. EXISTING DERMATITIS.

===== 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.

===== 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 H

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

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

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

===== 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 Prec

autions: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
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 DISEAS
E.

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

HCC:N1

Boiling Pt:B.P. Text:NONE

Appearance and Odor:DUSTY YELLOW GRAY POWDER

Perc

ent 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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he compiling agencies):

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