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PRAXAIR SURFACE TECHNOLOGIES INC -- NI-362-3 (PRODUCT CODE 036138-15)

3439-01-426-5235

Product ID:NI-362-3 (PRODUCT CODE 036138-15)

MSDS Date:08/23/1993

FSC:3439

NIIN:01-426-5235

Status Code:A

MSDS Number: CJSHF === Responsible Party ===

Company Name: PRAXAIR SURFACE TECHNOLOGIES INC

Address:1555 MAIN STREET

City:INDIANAPOLIS

State:IN

ZIP:46224-3283

Country:US

Info Phone Num:317-240-2650

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

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

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

Ingred Name:NICKEL CAS:7440-02-0

RTECS #:QR5950000

Min...... 0/ M/4.50

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: NICKEL BORON

CAS:11099-25-5

Minumum % Wt:5.

Maxumum % Wt:20.

Ingred Name: SILICON

CAS:7440-21-3

RTECS #: VW0400000

Minumum % Wt:1

Maxumum % Wt:5.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Minumum % Wt:1.

Maxumum % Wt:5.

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

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. MAY CAUSE ULCERS. EYES: MAY CAUSE IRRITATION.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITA

TION. MAY ALSO CAUSE

INTERSTITIAL PNEUMONITIS & SENSITIZATION OF THE RESPIRATORY TRACT IN SUSCEPTIBLE INDIVIDUALS. CHRONIC- MAY CAUSE SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS. EYES: CAN CAUSE CORNEAL DAMAGE, POLYCYTHEMIA, HYPERPLASIA OF THE THYROID GLAND, & DAMAGE TO THE ALPHA CELLS OF THE PANCREAS. INHALATION: MAY CAUSE EMPHYSEMA OR PULMONARY FIBROTIC DISEASE. SKIN: CONTACT MAY SPREAD TO THE WHOLE BODY. ECZEMA/NEURODERMATITIS FROM NICKEL DOESN'T REQUIRED CONT

NUOUS METAL CONTACT.

- Explanation of Carcinogenicity:NICKEL & CHROMIUM HAVE BEEN DETERMINED TO CAUSE CANCER IN EXPERMENTAL ANIMALS (IARC, NTP). NICKEL IS LISTED AS A PROBABLE HUMAN CARCINOGEN. CHROMIUM IS LISTED AS A HUMAN CARCINOGEN.
- Effects of Overexposure:ACUTE- SKIN: REDNESS & PAPULAR FORMATION IN SUSCEPTIBLE INDIVIDUALS. MAY CAUSE DRY & SCALY SKIN, FEVER. EYES: MAY CAUSE REDNESS & EXCESS REDNESS OF THE CONJUNCTIVA. INGESTION: MAY CAUSE NAUSEA, ABDOMI NAL PAIN, VOMITIN
- G, DIARRHEA, CENTRAL
 - NERVOUS SYSTEM DEPRESSION, & BURNING SENSATION. INHALATION: MAY CAUSE CHEST PAIN, VOMITING, DIARRHEA, BURNING SENSATION, & CNS DEPRESSION. CHRONIC- SKIN: LESIONS, ITCHING, SORENESS, BURNING SENSATION & REDNESS MAY SPREAD TO THE WHOLE BODY.
- Medical Cond Aggravated by Exposure:BREATHING OF DUST MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE. MAY ALSO AGGRAVATE AN EXISTING DERMATITIS.

	First Aid Measure	es ==
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First Aid:INGESTION: GIVE AT LEAST 2 GLASSES OF MILK OR WATER. INDUCE VOMITING, UNLESS PATIENT IS UNCONSCIOUS. CALL A PHYSICIAN. SKIN: WASH THOROUGHLY WITH SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. OXYGEN MAY BE GIVEN IF NECESSARY. CALL A PHYSICIAN. EYES: FLUSH THOROUGHLY WITH PLENTY OF WATER. IF DISCOMFORT PERSISTS, SEEK MEDICAL ATTENTION, PREFERABLY AN OPTHALMOLOGIST. NOTES TO PHYSICIAN: THE H AZARDS OF

HTIS MATERIAL ARE MAINLY DUE TO ITS SENSITIZING & MILD IRRITATING PROPERTIES. THERE IS NO SPECIFIC ANTIDOTE. TREATMENT OF OVEREXPOSURE SHOULD BE DI RECTED AT CONTROL OF SYMPTOMS.

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

Flash Point:NONE Lower Limits:NONE Upper Limits:NONE

Extinguishing Media:USE SPECIAL DRY POWDER METAL EXTINGUISHING MATERIAL TO EXTINGUISH METAL FIRES. USE APPROPRIATE EXTINGUISHER TO EXTINGUISH COMBUSTABLE MATERIALS THA

- T MAY BE IGNITED BY THERMAL FLAME.
- Fire Fighting Procedures: CONSULT AND COMPLY WITH ANSI Z49.1 SAFETY IN WELDING AND CUTTING, NFPA51B STANDARD FOR FIRE PREVENTION IN USE OF CUTTING AND WELDING PROCESSES. NFPA51B OXYGEN-FUEL GAS SYSTEMS FOR WELDING AND CUTTING, AND NFPA58 STANDARD FOR THE STORAGE AND HANDLING OF LIQUIFIED PETROLEUM GASES.
- Unusual Fire/Explosion Hazard: AIRBORNE DUST PARTICLES, ESPECIALLY METAL DUST, AND ACCUMULATION OF SUCH SHOULD BE TREATED AS EXPLOSIVES. TO

MINIMIZE DANGER FROM DUST EXPLOSIONS, ADEQUATE VENTILATION SHOULD BE PROVIDED TO SPRAY BOOT H IN ACCORDANCE WITH AMERICAN WELDING SOCIETY PUBLICATION AWSC2.1-73, AND ACGIH PUBLICATION "INDUSTRIAL VENTILATION".

======== Accidental Release Measures ==========	
Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINST HAZARDS AND DISPOSE OF PER WASTE DISPOSAL METHOD.	
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Other	

Precautions: 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, & 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 RECOM

HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION AND WEAR RESPIRATORS.(OTHER INFO)
========== Physical/Chemical Properties ===========
HCC:N1 Boiling Pt:B.P. Text:NONE Vapor Density:>AIR Appearance and Odor:GRAY POWDER ===================================
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. REASONABLY EXPECTED. DECOMPOSITION PRODUCTS OF NORMAL OPERATION FROM THIS THERMAL SPRAY POWDER- OXIDES, SUB-OXIDES, ETC
========= Disposal Considerations =============
Waste Disposal Methods:DISPOSE OF WASTE PER LOCAL, STATE, AND FEDERAL REGULATIONS.
========== MSDS Transport Information =============
Transport Information:PROPER SHIPPING NAME: METAL ALLOY POWDE R NOI ITEM 136500 SUB 1.
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SARA Title III Information:7440-02-0, NICKEL,