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PRAXAIR SURFACE TECHNOLOGIES INC -- NI-167 (PRODUCT CODE 036087-BK)

3439-01-426-3741

Product ID:NI-167 (PRODUCT CODE 036087-BK)

MSDS Date:09/15/1992

FSC:3439

NIIN:01-426-3741

Status Code:A

MSDS Number: CJSGT === 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: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:0VYG8

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

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: 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:7439-8

9-6

RTECS #:NO4565500

Minumum % Wt:1.

Maxumum % Wt:5.

Ingred Name: NICKEL BORON

CAS:11099-25-5 Minumum % Wt:5. Maxumum % Wt:20.

============ 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: SKIN CONTACT MAY CAUSE ALLERGIC

DERMATITIS. EYES: MAY CAUSE IRRITATION. REPEATED OVEREXPOSURE: MAY

CAUSE SENSITIZATION IN SUSCEPTIBLE INDIVIDUAL

## S. CHRONIC EXPOSURE TO

THE EYE CAN CAUSE CORNEAL DAMAGE, POLYCYTHEMIA, HYPERPLASIA OF THE THYROID GLAND, & DAMAGE TO THE ALPHA CELLS OF THE PANCREAS. REPEATED INHALATION MAY CAUSE EMPHYSEMA OR PULMONARY FIBROTIC DISEASE. CHRONIC SKIN CONTACT MAY SPREAD TO THE WHOLE BODY WITH LESIONS, ITCHING, SORENESS, BURNING SENSATION & REDNESS. MAY ALSO CAUSE INTERSTITIAL PNEUMONITIS & SENSITIZATION OF THE RESPIRATORY TRACT IN SUSCEPTIBLE INDIVIDUALS.

Explanation of Carcinogenici

ty: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 ALLERGIC DERMATITIS, WITH 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 & EXCESS R

EDNESS OF THE CONJUNCTIVA.

SWALLOWING-MAY CAUSE NAUSEA, ABDOMIAL PAIN, VOMITING, DIARRHEA, CNS DEPRESSION, & BURNING SENSATION. INHALATION- MAY CAUSE RESPIRATORY TRACT IRRITATION, WITH CHEST PAIN, VOMITING, DIARRHEA, BURNING SENSATION. & CNS DEPRESSION.

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 Measures	=======

First Aid:SWALLOWING-GIVE AT LEAST 2 GLASSES OF MILK OR WATER. INDUCE VOMITING, UNLESS PATIENT IS UNCONSCIOUS. CALL A PHYSICIAN. SKIN-WASH THOROUGHLY WITH SOAP AND WATER. INHALATION-REMOVE TO FRESH AIR. GIVE AR TIFICIAL 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 OPT HALMOLOGIST.

=======		Fire	Fightin
g 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 THAT 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. NFPA51 OXYGEN-FUEL GA

S 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.

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

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 H

EALTH. 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 A

NSI 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 ANDBODY 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. T

Vapor Density:N/VOLATILE
Appearance and Odor:DUSTY GRAY-YELLOW 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. DECOMPOSITION PRODUCTS OF NORMAL OPERATION FROM THIS THERMAL SPRAY POWDER (OXIDES, SUB-OXIDES, ETC)
======= Dispo sal 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 Title III Information:7440-02-0, NICKEL,

ext:NONE