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PRAXAIR SURFACE TECHNOLOGIES INC -- NI-163 (PRODUCT CODE ZNI163-0005)

3439-01-426-3736

Product ID:NI-163 (PRODUCT CODE ZNI163-0005)

MSDS Date:02/06/1996

FSC:3439

NIIN:01-426-3736 Status Code:A

MSDS Number: CJSGV === Responsible Party ===

Company Name: PRAXAIR SURFACE TECHNOLOGIES INC

Address:1555 MAIN STREET

City: INDIANAPOLIS

State:IN

ZIP:46224-3283

Country:U

S

Info Phone Num:317-240-2650

Emergency Phone Num:317-240-2209

Preparer's Name:J HUDDLESTON

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:

====== 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:20.

Maxumum % Wt:50.

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3

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

Ingred Name: ALUMINIUM

CAS:7429-90-5

RTECS #:BD0330000

Minumum % Wt:5.

Maxumum % Wt:20.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

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

LD50 LC50 Mixture:ORAL LD50(RAT): UNKNOWN.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:SKIN: MAY CAUSE ALLERGIC DERMATITIS.

MAY CAUSE ULCERS. EYES: MAY CAUSE IRRITATION. INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. REPEATED OVEREXPOSURE: MAY CAUSE SENSITIZATION IN SUSCEPTIBLE IN DIVIDUALS. CHRONIC EXPOSURE TO THE EYE C

- AN 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.
- Explanation of Carcinogenicity:NICKEL IS LISTED AS A PROBABLE HUMAN CARCINOGEN. CHROMIUM IS LISTED AS A HUMAN CARCINOGEN. NICKEL & CHROMIUM HAVE BEEN DETERMINED TO CAUSE CANCE
- R 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 REDNESS 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:SWALLOWING-GIVE AT LEAST 2 GLASSES OF MILK OR WATER. INDUCE VOMITING, UNLESS PATIENT IS UNCONSCIOUS. CALL A PHYSICIAN. SKI
- N-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 Fighting Measures ===========================

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

Extinguishing Media: USE SPECIAL DRY POWDER METAL EXTINGUISHING MATE

RIAL

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 GAS SYSTEMS FOR WELDING AND CUTTING, AND NFPA58 STANDARD FOR THE STORAGE AND HANDLING OF LIQUIFIED PETROLEUM GASES.

Unusual Fire/Explosion Hazard:Al

RBORNE 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".

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINS	Т
HAZARDS AND DISPOSE	
OF PER WASTE DISPOSAL METHOD.	
OF PER WASTE DISPOSAL METHOD.	

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

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

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:DE

PENDS 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

HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION AND WEAR RESPIRATORS.(OTHER INFO) ======== Physical/Chemical Properties =========== HCC:N1 Boiling Pt:B.P. Text:NONE Vapor Density:>THAN AIR Evaporation Rate & Evaporation R Appearance and Odor: GRAY 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) ======= Disposal Considerations =========== Waste Disposal Methods: DISPOSE OF WASTE PERS LOCAL, STATE, AND FEDERAL **REGULAT** IONS. ======== 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,

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