

PRAXAIR SURFACE TECHNOLOGIES INC -- NI-568 PRODUCT CODE: ZNI568-00KG --  
3439-01-426-5427

===== Product Identification =====

Product ID:NI-568 PRODUCT CODE: ZNI568-00KG  
MSDS Date:06/06/1994  
FSC:3439  
NIIN:01-426-5427  
Status Code:A  
MSDS Number: CJWVJ  
=== Responsible Party ===  
Company Name:PRAXAIR SURFACE TECHNOLOGIES INC  
Address:1555 MAIN STREET  
City:INDIANAPOLIS  
State:IN  
ZIP:46224-3283  
Country:US

In  
fo Phone Num:317-240-2650  
Emergency Phone Num:(800)424-9300  
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:SP0450-95-D-4037  
CA



CTIVA. SWALLOWING: MAY CAUSE NAUSEA, ABDOMINAL PAIN, VOMITING, DIARRHEA, CENTRAL NERVOUS SYSTEM DEPRESSION, & BURNING SENSATION. INHALATION:MAY CAUSE RESPIRATORY TRACT IRRITATION, WITH CHEST PAIN, VOIMITING, DIARRHEA, BURNING SENSATION, & CENTRAL NERVOUS SYSTEM DEPRESSION. MAY ALSO CAUSE INTERSTITIAL PNEUMONITIS & SENSITIZATION OF THE RESPIRATORY TRACT IN SUSCEPTIB LE PERSONS.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM HAVE BEEN DETERMINED TO CAUSE CANCER IN EXPE

RMENTAL ANIMALS (IARC, NTP). NICKEL IS

LISTED AS A PROBABLE HUMAN CARCINOGEN. CHROMIUM IS LISTED AS A HUMAN CARCINOGEN. CHRONIC ECZEMA/N EURODERMATITIS FROM NICKEL DOES NOT REQUIRE CONTINUOUS METAL CONTACT.

Effects of Overexposure:MAY CAUSE SENSITIZATION IN SUSCEPTABLE INDIVIDUALS. CHRONIC EXPOSURE TO THE EYE CAN CAUSE CORNEAL DAMAGE, POLYCYTHEMIA, HYPERPLASIA OF THE THYROID GLAND AND 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 AND REDNESS.

Medical Cond Aggravated by Exposure:BREATHING OF DUST MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE. MAY ALSO AGGRAVATE AN EXISTING DERMATITIS.

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===== 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 & WATER. INHALATIO: REMOVE TO FRESH AIR. GIVE ARTI FICIAL 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 OPTH ALMOLOGIST. NOTES TO PHYSCIAN:THE HAZARDS OF THIS MATERIAL ARE MAINLY DUE TO ITS SENSITIZING AND MILD IRRITATING PROPERTIES. THERE IS NO SPECIFIC ANTIDOTE.

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

Flash Point:NONE

Upper Limits:0.00%

Extinguishing Media:USE SPECIAL DRY POWDER METAL EXTINGUISHING MATERIAL TO EXTINGUISH METAL FIRES. USE APPROPRIATE EXTINGUISHER FOR COMBUSTABLE MATERIALS THAT MAY BE IGNITED BY THE THERMAL SPRAY FLAME.

Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

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

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

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, AND DUST CAN HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION AND WEAR RESPIRATOR IF REQUIRED.

===== 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 1910.134

Other Protective Equipment:SEE ANSI Z49.1, ANSI Z87.1, ANSI Z88.2 FOR HELMETS, FACE SHIELDS AND GOGGLES.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:N1

Boiling Pt:B.P. Text:NONE

Vapor Density:N/VOLATILE

Evaporation Rate & Reference:UNAVAILABLE

Appearance and Odor:DUSTY DARK GRAY POWDER

Percent Volatiles

by Volume:0

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE KNOWN.

Stability Condition to Avoid:NONE KNOWN.

Hazardous Decomposition Products:WHEN THERMAL SPRAYING, WILL VARY WITH OPERATING CONDITIONS. REASONABLY EXPECTED DECOMPOSITION PRODUCTS OF NORMAL OPERATION FROM THIS THERMAL SPRAY POWDER INCLUDE OXIDES OF THE LISTED INGREDIENTS.

===== Toxicological Information =====

Toxicity

Ecological Information:NONE SPECIFIED BY MANUFACTURER.

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Ecological:NONE SPECIFIED BY MANUFACTURER.

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===== Disposal Considerations =====  
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Waste Disposal Methods:DISPOSE OF WASTE PER LOCAL, STATE, AND FEDERAL REGULATIONS.

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===== MSDS Transport Information =====  
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Transport Information:NONE SPECIFIED BY MANUFACTURER.

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===== Regulatory Information ==  
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SARA Title III Information:PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40 CFR 372: CHROMIUM, CAS# 7440-47-3,