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PRAXAIR SURFACE TECHNOLOGIES INC -- CO-211-3 (PRODUCT CODE 032107-05) 3439-01-425-9667

Product ID:CO-211-3 (PRODUCT CODE 032107-05) MSDS Date:03/13/1992 FSC:3439 NIIN:01-425-9667 Status Code:A **MSDS Number: CJPVX** === Responsible Party === Company Name: PRAXAIR SURFACE TECHNOLOGIES INC Address:1555 MAIN STREET City:INDIANAPOLIS State:IN ZIP:46224-3283 Coun try: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

Ingred Name:COBALT CAS:7440-48-4 RTECS #:GF8750000 Minumum % Wt:20. Maxumum % Wt:50. OSHA PEL:0.1 MG/M3 ACGIH TLV:0.02 MG/M3 Ingred Name:NICKEL CAS:7440-02-0 RTECS #:QR5950000 Minumum % Wt:20. Maxumum % Wt:20. 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

LD50 LC50 Mixture:ORAL LD50(RAT): UNKNOWN. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:REPEATED OVEREXPOSURE: MAY CAUSE SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS. CHRONIC EXPOSURE TO THE EYE CAN CAUSE COR NEAL 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 & RED NESS.

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 CANCER IN EXPER IMENTAL

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 RESPIRA TORY

TRACT IRRITATION, WITH CHEST PAIN, VOMITING, DIARRHEA, BURNING SENSATION, & CNS DEPRESSION. MAY ALSO CAUSE INTERSTITIAL PNEUMONITIS & SENSITIZATION OF THE RESPIRATORY TRACT IN SU SCEPTIBLE INDIVIDUALS.

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 LEA

ST 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 DISCPMFORT PERSISTS, SEEK MEDICAL ATTENTION, PREFERABLY AN OPT HALMOLOGIST.

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 GAS SYSTEMS FOR WELDING AND CUTTING, AND NFP

A58 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.

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 HELME

TS, 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.
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HCC:N1 Boiling Pt:B.P. Text:NONE Vapor Density:N/VOLATILE Appearance and Odor:DUSTY DAR K GRAY POWDER
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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 ====================================
Wast e Disposal Methods:DISPOSE OF WASTE PERS LOCAL, STAET, AND FEDERAL REGULATIONS.
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Transport Information: PROPER SHIPPING NAME: METAL ALLOY POWDER NOI ITEM 136500 SUB 1.
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SARA Title III Information:7440-48-4, COBALT,