View NSN Online: https://aerobasegroup.de/nsn/3439-01-425-9654

Product ID:CO-210-1 (PRODUCT CODE 032070-15) MSDS Date:01/22/1992 FSC:3439 NIIN:01-425-9654 Status Code:A **MSDS Number: CJSHP** === 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 С

AGE:0VYG8

Ingred Name:NICKEL CAS:7440-02-0 RTECS #:QR5950000 Minumum % Wt:20. Maxumum % Wt:50. 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 Ingred Name:YT TRIUM CAS:7440-65-5 RTECS #:ZG2980000 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 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

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. MA Y CAUSE ULCERS. EYES: MAY CAUSE IRRITATION. INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. 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 MA Y SPREAD TO THE WHOLE BODY. 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 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. MAY ALSO CAUSE INTERSTITIAL PNEUMONITIS & SENSITIZATION OF THE RESPIRATORY TRACT IN SU SCEPTIBLE INDIVIDUALS.

Medical Cond Aggravated by Exposure: BREATHING OF DUS

T 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. 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.

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 Proced

ures: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: AIRBORNE DUST PARTICLES, ESPECIALLY METAL DUST, AND ACCUMULATION OF SUCH SHOULD BE TREATED AS EXPLOSIVES. TO MINIMIZE DANGER FROM DUST EXPLOSIONS, ADEQUATE VENTI LATION 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 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

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ntilation: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 RECOMMENDED EYE AND BODY PROTECTION. FUMES, GAS, AND DUST CA N HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION AND WEAR RESPIRATORS.(OTHER INFO)

HCC:N1 Boiling Pt:B.P. Text:NONE Vapor Density:N/VOLATILE Appearance and Odor:DUSTY LIGHT 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 PRODU CTS WILL VARY WITH OPERATING CONDITIONS. DECOMPOSITION PRODUCTS OF NORMAL OPERATION FROM THIS THERMAL SPRAY POWDER (OXIDES, SUB-OXIDES, ETC)
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Waste Disposal Methods:DISPOSE OF WASTE PER LOCAL, STATE, AND FEDERAL REGULATIONS.
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Transport Information: PROPER SHIPPING NAME: METAL ALLOY POWDER NOI ITEM 136500 SUB 1.

SARA Title III Information:7440-48-4, COBALT,