

PRAXAIR SURFACE TECHNOLOGIES INC -- MO-103 PRODUCT ID: 035010-05 -- 3439-01-426-6595  
===== Product Identification =====

Product ID:MO-103 PRODUCT ID: 035010-05  
MSDS Date:01/22/1992  
FSC:3439  
NIIN:01-426-6595  
Status Code:A  
MSDS Number: CJXJH  
=== 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:(800)424-9300  
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:SP0450-95-D-4037  
CAGE:0VYG8

===

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

Ingred Name:MOLYBDENUM  
CAS:7439-98-7  
RTECS #:QA4680000  
> Wt:75.  
OSHA PEL:15 MG/M3  
ACGIH TLV:10 MG/M3

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SKIN:MAY CAUSE ALLERGIC DERMATITIS,  
WITH REDNESS & PAPULAR FO  
RMATION IN SUSCEPTABLE INDIVIDUALS. MAY  
CAUSE ULCERS PROGRESSING TO DRY & SCALY SKIN, FEVER. EYE:MAY CAUSE  
IRRIATATION, EXPERIENCED AS REDN ESS & EXCESS REDNESS OF THE  
CONJUNCTIVA. 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 INTERSTIT  
IAL PNEUMONITIS &  
SENSITIZATION OF THE RESPIRATORY TRACT IN SUSCEPTIB LE PERSONS.  
Explanation of Carcinogenicity:NONE CURRENTLY KNOWN.  
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.

=====  
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. INHA

LATION: REMOVE TO FRESH

AIR. GIVE ARTIFICIAL 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 OPTHALMOLOGIST. NOTES TO PHYSICIAN: THE HAZARDS OF THIS MATERIAL ARE MAINLY DUE TO ITS SENSITIZING AND MILD IRRITATING PROPERTIES. THERE IS NO SPECIFIC ANTIDOTE.

=====  
===== 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 COMBUSTIBLE 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.

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

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 1910.13

Other Protective Equipment: SEE AN

SI 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 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 =====

Toxicological Information:NONE SPECIFIED BY MANUFACTURER.

===== Ecological Information =====

Ecological:NONE SPECIFIED BY MANUFACTURER.

===== Disposal Considerations =====

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

===== MSDS Transport Information =====

Transport Information:NONE SPECIFIED BY MANUFACTURER.

===== Regulatory Information =====

SARA Title III Information:PRODUCT CONTAINS THE FOLLOWING TOXI

C

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: NONE.

Federal Regulatory Information: ALL COMPONENTS OF THIS PRODUCTS ARE LISTED IN TSCA.

State Regulatory Information: CALIFORNIA PROPOSITION 65 (CARCINOGEN): NONE. CALIFORNIA PROPOSITION 65 (TERATOGENIC): NONE. CALIFORNIA PROPOSITION 65 (BOTH TERATOGENIC AND CARCINOGEN): NONE.

=====  
===== Other Information =====  
=====

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.