

PRAXAIR SURFACE TECHNOLOGIES INC -- CRO-131 (PRODUCT CODE 062018-10) --
3439-01-426-1320

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

Product ID:CRO-131 (PRODUCT CODE 062018-10)
MSDS Date:03/23/1994
FSC:3439
NIIN:01-426-1320
Status Code:A
MSDS Number: CJTGZ
=== 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: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
CAG

E:0VYG8

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

Ingred Name:CHROMIUM OXIDE

CAS:1308-38-9

RTECS #:GB6475000

> Wt:75.

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE- NO EVIDENCE OF ADVERSE EFFECTS.

CHRONIC- NO EVIDENCE OF ADVERSE EFFECTS FROM AVAILABLE
INFORMATION.

Explanation of Carc

inogenicity:CHROMIUM HAS BEEN DETERMINED TO CAUSE

CANCER IN EXPERIMENTAL ANIMALS (IARC, NTP).

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:INGESTION: NO HARMFUL EFFECTS EXPECTED. SKIN: WASH

THOROUGHLY WITH SOAP AND WATER. INHALATION: NO EMERGENCY CARE

ANTICIPATED. EYES: FLU

SH THOROUGHLY WITH WATER. NOTES TO

PHYSICIAN: THERE IS NO SP ECIFIC ANTIDOTE. TREATMENT OF

OVEREXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE
CLINICAL CONDITION.

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

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 I

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. NFPA51B 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 MI

MINIMIZE DANGER FROM DUST EXPLOSIONS, ADEQUATE VENTILATION SHOULD BE PROVIDED TO SPRAY BOOTH IN ACCORDANCE WITH AMERICAN WELDING SOCIETY PUBLICATION AWS C2.1-73, 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.

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

Other Precaution

s: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 CAN 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 1

910.134, 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

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ANDBODY PROTECTION. FUMES, GAS, AND DUST 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:N/VOLATILE
Appearance and Odor:DUSTY DARK GREEN 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 PER LOCAL, STATE, AND FEDERAL
REGULATIONS.

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

Transport Information:PROPER SHIPPING NAME: METAL ALLOY POWDER NOI ITEM
136500 SUB 1.

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

SARA Title III Information:NONE
State Regulatory Information:NONE

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

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