

N/P -- TAFE 1248 COBALT-MOLYBDENUM-CHROMIUM-SILICO -- 3439-01-397-4204  
Product ID:TAFE 1248 COBALT-MOLYBDENUM-CHROMIUM-SILICO  
MSDS Date:01/01/1987  
FSC:3439  
NIIN:01-397-4204  
MSDS Number: BYCGR  
=== Responsible Party ===  
CAGE:26057  
=== Contractor Identification ===  
Company Name:TAFE INC  
Address:146 PEMBROKE RD  
Box:City:CONCORD  
State:NH  
ZIP:03301  
Country:US  
Phone:603-224-9585  
CAGE:26057

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

Ingred Name:CHROMIUM (SARA III)  
CAS:7440-47-3  
RTECS #:GB4200000  
Fraction by Wt: 20% %  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:0.5 MG/M3; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:MOLYBDENUM  
CAS:7439-98-7  
RTECS #:QA4680000  
Fraction by Wt: 28% %  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9192

Ingred Name:SILICON  
CAS:7440-21-3  
RTECS #:VW0400000  
Fraction by Wt: 3% %  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:COBALT

(SARA III)  
CAS:7440-48-4  
RTECS #:GF8750000  
Fraction by Wt: 49% %  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.05 MG/M3  
ACGIH TLV:0.05 MG/M3;DUST 9192

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO POWDER AND  
SPRAY ARC FUMES MAY RESULT IN IRRITATION OF T  
HE NOSE, THROAT, EYES  
AND SKIN. CHRONIC OVEREXPOSURE TO POWDER AND SPRAY ARC FUMES MAY  
RESULT IN BRONCHIAL ASTHMA, LUNG F IBROSIS OR PNEUMOCONIOSIS.  
ELECTRIC SHOCK CAN KILL. ARC RAYS MAY INJURE EYES AND BURN SKIN. NO  
HAZARD DURING STORAGE.  
Explanation of Carcinogenicity:CONTAINS CHROMIUM AND COBALT COMPOUNDS  
CONSIDERED AS CARCINOGENS PER MANUFACTURER.  
Effects of Overexposure:RESPIRATORY TRACT IRRITATION, TIGHTENING OF  
CHEST, PRODUCTIVE COUGH, SKIN IRRITATION, SKIN ULCERS,  
DERMATITIS,  
WEIGHT LOSS, EYE IRRITATION, REDUCED PULMONARY FUNCTION, ULCERATION  
AND PERFORATION OF NA SAL SEPTUM.  
Medical Cond Aggravated by Exposure:IMPAIRED LUNG FUNCTION (ASTHMA-LIKE  
CONDITIONS).

===== First Aid Measures =====

First Aid:INHALATION: IF PULMONARY SYMPTOMS DEVELOP, REMOVE FROM  
EXPOSURE AND SEEK MEDICAL ATTENTION. SKIN: WASH THOROUGHLY WITH  
SOAP AND WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.  
EYES: FLUSH  
WITH LARGE AMOUNTS OF WATER FOR AT LEAST 10 MINUTES.  
IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION. INGESTION: DRINK  
LARGE AMOUNTS OF WATER AND INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Flash Point:NONFLAMMABLE

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

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA  
OF SPILL. USE CLEANUP METHODS WHICH AVOID DUST GENERATION SUCH A

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VACUUMING WITH APPROPRIATE FILTERS. IF DUST IS GENERATED, USE AN APPROPRIATE NIOSH APPROVED RESPIRATOR.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. MAINTAIN GOOD HOUSEKEEPING PROCEDURES TO PREVENT ACCUMULATION OF DUST. USE CLEANUP METHODS WHICH MINIMIZE DUST GENERATION.  
Other Precautions:KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT SHAKE CLOTHING TO REMOVE DUST. AVOID INHALATION AND SKIN CONTACT.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF PERSONAL EXPOSURE CANNOT BE CONTROLLED BELOW THE APPLICABLE LIMITS, WEAR A PROPERLY FITTED FUME/DUST RESPIRATOR APPROVED BY NIOSH/MSHA FOR PROTECTION AGAINST INGREDIENTS. REFER TO OSHA STANDARD 191 0.134, ON RESPIRATORY PROTECTION.  
Ventilation:USE ENOUGH VENTILATION TO KEEP DUSTS, FUMES AND GASES BELOW THE PELs AND TLVs IN WORKER'S BREATHING ZONE.  
Protective Gloves:WHEN WELDING, USE WELDER'S GLOVES  
Eye Protection:USE NO.3 OR NO. 5 SHADE SAFETY GLASSES  
Other Protective Equipment:RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.  
Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.  
Supplemental Safety and Health  
PRODUCT NOT A HAZARD AS SHIPPED/STORED. HAZARD OCCURS WHEN USED IN WELDING. ARC SPRAY FUMES AND GASES CANNOT BE CLASSIFIED SIMPLY. THE COMPOSITION AND QUANTITY ARE DEPENDENT UPON THE METAL BEING SPRAYED.

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

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, OZONE, CHROMIUM OXIDES, COBALT OXIDES, SILICA, MOLYBDENUM

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SUR

## ROUNDING

ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. PRODUCT MAY BE RECLAIMED OR RECYCLED THROUGH METAL RECYCLER.

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