

HOBART TAFA TECHNOLOGIES INC -- CHROME CARBIDE-20 % NICHROME,1373 V --  
3439-01-397-5680

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

Product ID:CHROME CARBIDE-20 % NICHROME,1373 V

MSDS Date:07/15/1994

FSC:3439

NIIN:01-397-5680

MSDS Number: BYCGX

=== Responsible Party ===

Company Name:HOBART TAFA TECHNOLOGIES INC

Address:146 PEMBROKE RD

City:CONCORD

State:NH

ZIP:03301

Country:US

Info Phone Num:603-224-9585

E

mergency Phone Num:603-224-9585

CAGE:FO895

=== Contractor Identification ===

Company Name:HOBART TAFA TECHNOLOGIES INC

Address:146 PEMBROKE RD

City:CONCORD

State:NH

ZIP:03301-5000

Country:US

Phone:603-224-9585

CAGE:FO895

Company Name:STARGHILL TECHNOLOGIES CORP

Address:3850 OAKMAN BLVD

Box:City:DETROIT

State:MI

ZIP:48204-1119

Country:US

Phone:313-933-4141

CAGE:0VYG8

Company Name:TAFA INC

Address:146 PEMBROKE RD

Box:City:CONCORD

State:NH

ZIP:03301

Country:US

Phone:603-224-9585

CAGE:26057

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

Ingred Name:CHROMIUM (SARA 313) (CERCLA)

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; 9495

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:NICKEL (SARA 313) (CERCLA)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 80%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9495

==== Hazards Identification =====

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LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT RELEVANT.

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY

TRACT. ACUTE- ARC RAYS CAN INJURE EYES & BURNS SKIN. INHALATION OF

FUMES MAY DAMAGE LUNGS. SWALLOWING CHROMIUM SALTS CAN CAUSE SEVERE INJURY/DEATH. DUST ON SKIN CA N FORM ULCERS & ON EYES CAUSES BURNS.

ALLERGIC REACTION MAY OCCUR. CHRONIC- ULCER

ATION, LUNG FIBROSIS,

BRONCHIAL ASTHMA.

Explanation of Carcinogenicity:CONTAINS NICKEL AND CHROMIUM.

Effects of Overexposure:IRRITATION, SKIN DERMATITIS OR ECZEMA, COUGH,

WHEEZING AND SHORTNESS OF BREATH, DECREASED PULMONARY FUNCTION,

HEADACHE, NAUSEA, VOMITING, WEAKNESS, CONVULSIONS, RESPIRATORY AND SKIN SENSITIZATION, BUR NS, METALLIC TASTE, METAL FUME FEVER

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING

DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT MAY HA

VE INCREASED  
SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:OBTAIN MEDICAL ATTENTION IF NEEDED. EYES:FLUSH WITH WATER FOR 10 MINUTES. KEEP EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. INHALATION:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. INGESTION:DRINK LA RGE AMOUNT OF WATER & INDUCE VOMITING. CALL PHYSICIAN.

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

Flas  
h Point:NONE  
Extinguishing Media:COVER BURNING POWDER WITH DRY SAND OR LIMESTONE TO SMOTHER FLAMES. IF FIRE OCCURS IN DRUMS, SEAL DRUM WITH LID.  
Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:FINE METAL DUSTS MAY PRESENT FIRE OR EXPLOSION HAZARD IN CONFINED AREAS. THIS IS NOT EXPECTED UNDER NORMAL HANDLING PROCEDURES.

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

Spill  
Release Procedures:WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA. VACUUM LOOSE POWDER ONLY WITH VACUUMS EQUIPPED WITH HEPA FILTRATION. WIPE AREA CLEAN. DO NOT USE WATER FOR CLEAN UP OPERATION. DO NOT SWEEP. PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST.  
Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN A DRY, VENTILATED PLACE AWAY FROM INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN.  
Other Precautions:AVOID INGESTION, INHALATION AND EXCESSIVE SKIN CONTACT. AVOID BREATHING OF FUMES OR DUST. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING. REMOVE CONTAMINATED CLOTHING. LAUNDRY BEFORE REUSE.

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

Respiratory Protection:A NIOSH-APPROVED RESPIRATOR WITH FILTER CARTRIDGES APPROVED FOR DUST/FUMES/MISTS SHOULD

BE WORN AT ALL  
TIMES DURING THE THERMAL SPRAY PROCESS. RESPIRATORS MAY ALSO BE  
WORN WHEN PRODUCT HANDLING GENERATES DUST.  
Ventilation:USE ENOUGH VENTILATION TO KEEP THE DUSTS, FUMES AND GASES  
BELOW THE PELS OR TLVS IN THE WORKER'S BREATHING ZONE.  
Protective Gloves:WELDER'S GLOVE WHEN WELDING  
Eye Protection:USE # 5 SHADE SAFETY GLASSES IF WELDING.  
Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, HEAD, HAND  
& BODY PROTECTION TO PREVENT INJURY FROM RADIATION, SPARKS &

ELECTRIC SHOCK.  
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES.  
Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:T6  
NRC/State Lic Num:NOT RELEVANT  
Melt/Freeze Pt:M.P/F.P Text:2372F,1300C  
Viscosity:NOT RELEVANT  
Evaporation Rate & Reference:NOT RELEVANT  
Solubility in Water:INSOLUBLE  
Appearance and Odor:GREY POWDER - NO ODOR

===== Stability and Reactivity Data =====  
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Stability Indicator/Materials to Avoid:YES  
ACIDS  
Stability Condition to Avoid:PRODUCTION OF FINE POWDER  
Hazardous Decomposition Products:WELDING FUMES (OXIDES OF METAL BEING  
WELD) & GASES SUCH AS OZONE, CARBON MONOXIDE, CARBON DIOXIDE,  
NITROGEN OXIDES

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

Waste Disposal Methods:PRIOR TO DISPOSAL, CONSIDER IF MATERIAL HAS  
RECOVERY VALUE. EMPTY PRODUCT CONTAINERS, PROUCT WASTE AND CLEANING  
MEDIA SHOULD BE DISPO

SED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND  
FEDERAL REGULATIONS. PREVENT WASTE FROM CONTAMINATING ENVIRONMENT.

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