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HOBART TAFA TECHNOLOGIES, INC. -- TAFA 1342 TUNGSTEN CARBIDE 12 COBALT

3439-01-397-4199

Product ID:TAFA 1342 TUNGSTEN CARBIDE 12 COBALT

MSDS Date:07/15/1994

FSC:3439

NIIN:01-397-4199

MSDS Number: BYCGN === Responsible Party ===

Company Name: HOBART TAFA TECHNOLOGIES, INC.

Address:146 PEMBROKE ROAD

City:CONCORD

State:NH ZIP:03301 Country:US

Info Phone Num:603-2

24-9585

Emergency 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

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

Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000 Fraction by Wt: 82% %

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG/M3/ 10 STEL ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Name: COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750000 Fraction by Wt: 12% %

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.05 MG/M3

ACGIH TLV:0.05 MG/M3;DUST 9192

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 2% % Other REC Limits:NON E RECOMMENDED

Ingred Name: CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000 Fraction by Wt: 4% %

Other REC Limits: NONE RECOMMENDED

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3; 9192

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 RESU

- LT IN IRRITATION OF THE 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 COBALT COMPOUNDS CONSIDERED AS CARCINOGENS PER MANUFACTURER.
- Effects of Overexposure:RESPIRATORY TRACT IRRITATION, TIGHTENING OF CHEST, PRODUCTIVE COUGH, SKIN IRRITATION, DERM
- ATITIS, WEIGHT LOSS,

 EYE IRRITATION REDUCED PULMONARY FUNCTION I
 - EYE IRRITATION, REDUCED PULMONARY FUNCTION, DIFFUSE NODULAR FIBROSIS OF LUNGS, SIDEROSIS.
- Medical Cond Aggravated by Exposure:IMPAIRED LUNG FUNCTION (ASTHMA-LIKE CONDITIONS).

- 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 Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

- Extinguishing Media: COVER BURNING POWDER WITH DRY SAND OR LIMESTONE TO SMOTHER FLAME.
- Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHIN
- G APPARATUS AND FULL PROTECTIVE GEAR. IF FIRE OCCURS IN OPEN DRUMS, SEAL DRUM WITH LID TO SMOTHER FLAMES.
- Unusual Fire/Explosion Hazard:DUST MAY PRESENT FIRE OR EXPLOSION HAZARD IN CONFINED AREA. THIS IS NOT EXPECTED UNDER NORMAL HANDLING PROCEDURES.

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

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

RIATE FILTERS. IF DUST IS GENERATED, USE AN APPROPRIATE NIOSH APPR OVED 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. A

VOID 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.

Prot

ective 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 SPRAY ED.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN Melt/Freeze Pt:M.P/F.P Text:>1,300C

Vapor Pres:NOT GIVEN Vapor Density:NOT GIVEN Spec Gravity:NOT GIVEN

Evaporation Rate & Dr. Reference: NOT GIVEN

Solubility in Water: INSOLUBLE

Appearance and Odor: GREY POWDER, NO ODOR

Percent Volatiles by Volume:NIL

Stability Indicator/Materials to Avoid:YES ACIDS. CONTACT WITH ACIDS WILL PRODUCE FLAMMABLE HYDROGEN GAS. Stability Condition to Avoid:AVOID CREATING DUST. FINE POWDER MAY IGNITE DURING MECHANICAL TREATMENT. Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, OZONE, TUNGSTEN OXIDES, COBALT OXIDES, IRON OXIDE, CARBIDE
======= Disposal Considerations ===========
Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. PRODUCT MAY BE RECLAIME D OR RECYCLED THROUGH METAL RECYCLER.

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

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