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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:603-22 4-9585 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

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:NONE 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 RESUL T 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, DERMA

TITIS, WEIGHT LOSS,

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.

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 BREATHING

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.

Spill Release Procedures: REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA OF SPILL. USE CLEANUP METHODS WHICH AVOID DUST GENERATION SUCH AS VACUUMING WITH APPROPR IATE FILTERS. IF DUST IS GENERATED, USE AN APPROPRIATE NIOSH APPR OVED RESPIRATOR. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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. AV OID INHALATION AND SKIN CONTACT. 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. Prote ctive 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. HCC:N1 Boiling Pt:B.P. Text:NOT GIVEN Melt/Freeze Pt:M.P/F.P Text:>1,300C

Melt/Freeze Pt:M.P/F.P Text:>1,300C Vapor Pres:NOT GIVEN Vapor Density:NOT GIVEN Spec Gravity:NOT GIVEN Evaporation Rate & amp; 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

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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