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HOBART BROTHERS CO -- LOW HYDROGEN LOW ALLOY COVERED ELECTRODES T -3439-00-967-2759

Product ID:LOW HYDROGEN LOW ALLOY COVERED ELECTRODES T MSDS Date:03/01/1988 FSC:3439 NIIN:00-967-2759 MSDS Number: BMTPG === Responsible Party === Company Name: HOBART BROTHERS CO Address:600 WEST MAIN STREET City:TROY State:OH ZIP:45373 Country:US Info Phone Num:513-332-4000 Eme rgency Phone Num:513-332-4000 CAGE:28835 === Contractor Identification === Company Name: HOBART BROTHERS CO Address:600 W MAIN ST HOBART SQUARE Box:City:TROY State:OH ZIP:45373 Country:US Phone:513-339-6000 CAGE:28835 Ingred Name: TITANIUM DIOXIDE CAS:13463-67-7 RTECS #:XR2275000 Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293 Ingred Name:CALCIUM FLUORIDE

CAS:7789-75-5 RTECS #:EW1760000 O ther REC Limits:NONE SPECIFIED OSHA PEL:2.5 MG/M3 AS F ACGIH TLV:2.5 MG/M3 AS F

Ingred Name:SILICA, CRYSTALLINE - QUARTZ CAS:14808-60-7 RTECS #:VV7330000 Other REC Limits:NONE SPECIFIED OSHA PEL:SEE TABLE Z3 ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Other REC Limits:NONE SPECIFIED OSHA PEL:5 MG/M3 ACGIH TLV:10 MG/M3 AS FE2O3

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Other REC Limits:NONE SPECIFIED OSHA PEL:(C) 5 MG/M3 DUST ACGIH TL V:5 MG/M3 DUST 9293

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

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

Ingred Name:NICKEL (SARA I

II) CAS:7440-02-0 RTECS #:QR5950000 Other REC Limits:NONE SPECIFIED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

LD50 LC50 Mixture: UNCLASSIFIED WELDING FUMES=5MG/M3 PEL Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:CHROMIUM: MAY CAUSE LUNG CHANGES. COBALT: MAY CAUSE RESPIRATORY IRRITATION & DISEASE. IRON: MAY CAUSE X-RAY CH ANGES OF THE LUNGS. MANGANESE: MAY CAUSE METAL FUME FEVER, AFFECT THE NERVOUS SYSTEM & RES PIRATORY SYSTEM DISEASE. MOLYBDENUM: MAY CAUSE IRRITATION. NICKEL: MAY CAUSE RESPIRATORY **DISEASE & ALLERGIC SKIN RASH.** Explanation of Carcinogenicity:NICKEL, COBALT-CHROMIUM ALLOYS, AND CHROMIUM HAVE BEEN IDENTIFIED BY IARC AND/OR NTP AS POTENTIAL CANCER CAUSING AGENTS. Effects of Overexposure: EXPOSURE TO WELDING FUMES MAY CAUSE METAL FUME FEVER WITH SYMPTOMS OF CHILLS, FEVER, NAUSE A, COUGH, DRY THROAT, WEAKNESS, MUSCLE ACHES, AND A SWEET OR METALLIC TASTE IN THE MOUTH. PROLONGED OR REPEATE D EXPOSURE MAY CAUSE DIFFICULTY IN WALKING, WEAKNESS OR CRAMPS IN THE LEGS, HOARSENESS, MEMORY LOSS, SKIN SENSITIZATION. Medical Cond Aggravated by Exposure: PRE-EXISTING CHRONIC SKIN, EYE OR RESPIRATORY DISORDERS MAY BE AGGRAVATED IF INDIVIDUALS ARE REPEATEDLY OVEREXPOSED TO FUMES AND DUST.

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rst Aid:INHALATION: REMOVE TO FRESH AIR. CONSULT A PHYSICIAN. EYE: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INGESTION: WHILE INGESTI ON OF LARGE ENOUGH QUANTITIES TO CAUSE HEALTH EFFECTS IS UNLIKELY, CONSULT A PHYSICIAN IF IT OCCURS.

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:

## WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID INHA

LATION AND SKIN EXPOSU RE.

Handling and Storage Precautions: WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING.

Other Precautions: PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS. WHEN ELECTRODES AND FLUXES ARE CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS LISTED. NEW COMP

OUNDS NOT IN THE ELECTRODES MAY FORM.

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

Respiratory Protection:WEAR NIOSH APPROVED RESPIRATORS FOR PROTECTION AGAINST AIRBORNE DUST OR FUMES. RESPIRATORS SHOULD BE USED IN ACCORDANCE WITH 29CFR 1910.134.

Ventilation: USE LOCAL AND GENERAL VENTILATION TO KEEP AIRBORNE CONCENTRATIONS OF DUST OR FUMES BELOW THE TLV DURING USE.

Protective Gloves:WELDERS LEATHER GLOVES

Eye Protection:OSHA APPROVED GOGGLES/FACE SHIELD W/LE

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Other Protective Equipment: BARRIER CREAMS MAY BE NECESSARY TO PREVENT SKIN SENSITIZATION AND DERMATITIS.

Work Hygienic Practices: WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTOR

## S ARE THEPRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.

HCC:N1

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION Hazardous Decomposition Products:WELDING AND CUTTING OPERATION MAY INCLUDE OXIDES OF THE METALS, CHROMATE

S, FLUORIDES, COMPLEX METALLICS, AND OZONE.

Waste Disposal Methods:RECYCLE OR DISPOSE IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

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