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HOBART BROTHERS CO -- LOW HYDROGEN LOW ALLOY COVERED ELECTRODES T

3439-00-967-2759

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

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

Fm

ergency 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

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

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

Other 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 T

LV: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

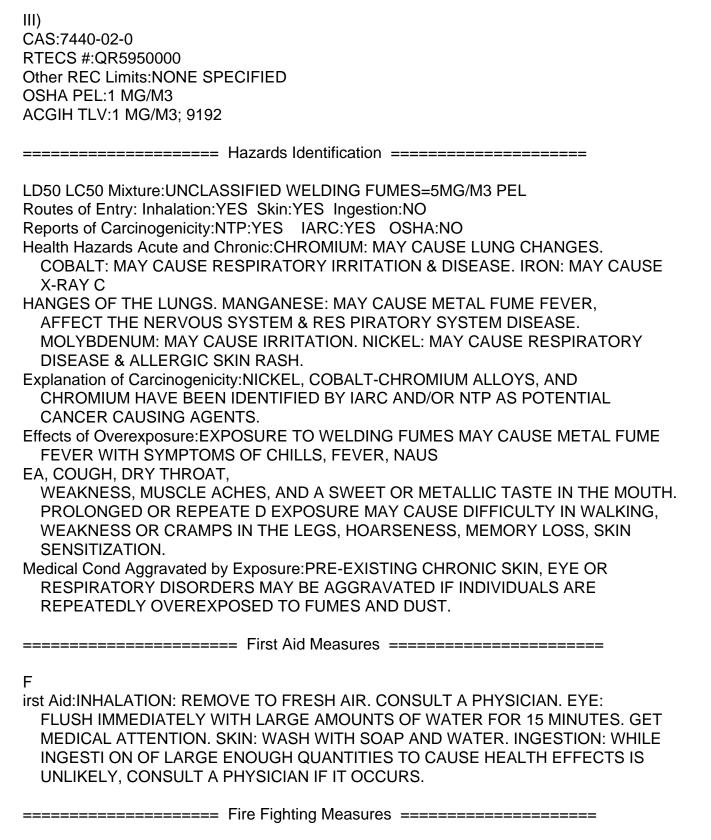
Other REC Limits: NONE SPECIFIED

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



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.

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

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 INH

ALATION AND SKIN EXPOSU RE.

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

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 COM

POUNDS 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/L ENS

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 FACTO

CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.
========= Physical/Chemical Properties ==========
HCC:N1
========= Stability and Reactivity Data ==========
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, CHROMAT ES, FLUORIDES, COMPLEX METALLICS, AND OZONE.
======= Disposal Considerations ==========
Waste Disposal Methods:RECYCLE OR DISPOSE IN ACCORDANCE WITH FEDERAL,

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

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