

HOBART BROTHERS CO -- ER 347 -- 3439-01-066-1585

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

Product ID:ER 347
MSDS Date:01/01/1988
FSC:3439
NIIN:01-066-1585
MSDS Number: BMBXB
=== Responsible Party ===
Company Name:HOBART BROTHERS CO
Address:600 W MAIN ST HOBART SQUARE
City:TROY
State:OH
ZIP:45373
Country:US
Info Phone Num:513-332-4000
Emergency Phone Num:513-332-4000
CAGE:28835
=== Contractor Identifica
tion ===
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:IRON
CAS:7439-89-6
RTECS #:NO4565500
Other REC Limits:NONE SPECIFIED

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

Ingred Name:NICKEL (SARA III)
CAS:7440-02-

0
RTECS #:QR5950000
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

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: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:NIOBIUM/COLUMBIUM
CAS:7440-03-1
Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE-WELDING FUMES MAY CAUSE
DISCOMFORT,DIZZINESS,NAUSEA.EYE:MAY BE BURNED.SKIN:CAN FORM
ULCER.INHALE:FUME

WITH CHROMIUM(VI) MAY CAUSE LUNG DAMAGE. ORAL: CHROMIUM(VI) SALTS CAN CAUSE SEVERE INJURY/DEATH. NICKEL CAUSES NAUSEA, FEVER. CHRONIC- MAY LEAD TO SIDEROSIS (IRON DEPOSIT IN LUNGS) WHICH MAY AFFECT PULMONARY FUNCTIONS.

Explanation of Carcinogenicity: THIS MATERIAL CONTAINS NICKEL, CADMIUM AND CHROMIUM(VI).

Effects of Overexposure: WELDING FUMES MAY CAUSE DISCOMFORT, DIZZINESS, NAUSEA. MAY BURN EYES. CAN FORM SKIN ULCER. FUME WITH CHROMIUM(VI) MAY CAUSE LUNG DAMAGE. INGESTION OF CHROMIUM(VI) SALTS CAN CAUSE SEVERE INJURY/DEATH. NICKEL CAUSES NAUSEA, FEVER.

Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE WELDING FUMES.

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

First Aid: GET MEDICAL CARE IF NEEDED. EYES: FLUSH WITH WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. SKIN: WASH THOROUGHLY WITH SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. PROVIDE CPR IF NEEDED. INGESTION: CALL A DOCTOR .

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

Flash Point: NONE

Extinguishing Media: THIS ALLOY IS NONCOMBUSTIBLE. TO EXTINGUISH A METAL POWDER FIRE, USE DRY SAND, DRY GRAPHITE OR OTHER CLASS "D" POWDER.

Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard: NONE. IN CONTACT WITH ACIDS, HYDROGEN GAS WILL BE FORMED WHICH IS FLAMMABLE AND EXPLOSIVE.

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

Spill Release Procedures: WEAR RESPIRATORY EQUIPMENT DURING CLEANUP. USE EQUIPMENT THAT KEEPS MATERIAL FROM BECOMING AIRBORNE. TO MINIMIZE DUST GENERATION I.E. WET MOP, HEPA VACUUM.

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

Handling and Storage Precautions: STORAGE-KEEP MATERIAL IN CLOSED CONTAINERS AWAY FROM MOISTURE, STRONG OXID

IZERS & ACIDS.

Other Precautions:NO FOOD OR SMOKING IN WORK AREAS. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING FUMES AND VAPORS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW PEL, TLV OR STEL.

Ventilation:LO

CAL EXHAUST AT THE ARC (OR FLAME), OR BOTH, TO KEEP THE FUMES AND GASES BELOW PEL'S, TLV'S OR STEL'S IN BREATHING ZONE

Protective Gloves:WELDER'S GLOVE

Eye Protection:PROTECTIVE FACE SHIELD

Other Protective Equipment:EYE WASH STATION, APRONS, HATS, ARM & SHOULDER PROTECTION, AS WELL AS DARK SUBSTANTIAL CLOTHING.

Work Hygienic Practices:WEAR HEAD AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.

Supplemental Safety and Health

=====

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID WIRE OR ROD

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS AND ACIDS

Stability Condition to Avoid:FLAMES

Hazardous Decomposition Products:METAL OXIDES. DECOMPOSITION PRODUCTS INCLUDE THOSE ORIGINIATING FROM INGREDIENTS + THOSE FROM THE BASE METAL & COATING.

=====
===== Di

sposal Considerations =====

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE AN D LOCAL REGULATIONS

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner

whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.