

ITW HOBART BROTHERS

-- 91B3L-V85C1, CARBON AND LOW ALLOY STEEL

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MSDS Safety Information  
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FSC: 3439  
NIIN: 01-326-1748  
MSDS Date: 07/01/1998  
MSDS Num: CKMQR  
Product ID: 91B3L-V85C1, CARBON AND LOW ALLOY STEEL  
MFN: 01  
Responsible Party  
Cage: TO696  
Name: ITW HOBART BROTHERS  
Address: 8585 INDUSTRY PARK DRIVE  
City: PIQUA OH 45356  
Info Phone Number: 937-773-2010  
Emergency Phone Number: (800)424-9300  
Resp. Party Other MSDS No.: PIQ-TW  
Chemtrec IND/Phone: (800)424-9300  
Review Ind: Y  
Published: Y

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Contractor Summary  
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Cage: TO696  
Name: ITW HOBART BROTHERS  
Address: 8585 INDUSTRY PARK DRIVE  
City: PIQUA OH 45356  
Phone: 937-773-2010

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Item Description Information  
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Item Manager: S9G  
Item Name: ELECTRODE,WELDING  
Unit of Issue: LB

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Ingredients  
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Cas: 7439-96-5  
RTECS #: 009275000  
Name: MANGANESE  
< Wt: 4.  
OSHA PEL: C5 MG/M3  
ACGIH TLV: 5 MG/M3  
ACGIH STEL: NOT ESTABLISHED

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Cas: 7439-89-6  
RTECS #: NO4565500  
Name: IRON  
% low Wt: 80.  
% high Wt: 95.

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Cas: 13463-67-7  
RTECS #: XR2275000  
Name: TITANIUM DIOXIDE  
< Wt: 10.  
OSHA PEL: 15 MG/M3

ACGIH TLV: 10 MG/M3  
ACGIH STEL: NOT ESTABLISHED

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Cas: 7440-21-3  
RTECS #: VW0400000  
Name: SILICON  
< Wt: 3.  
OSHA PEL: 15 MG/M3  
ACGIH TLV: 10 MG/M3  
ACGIH STEL: NOT ESTABLISHED

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Cas: 14542-23-5  
Name: FLUORSPAR  
< Wt: 5.

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Cas: 7439-98-7  
RTECS #: QA4680000  
Name: MOLYBDENUM  
< Wt: 2.  
ACGIH TLV: 10 MG/M3  
ACGIH STEL: NOT ESTABLISHED

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Cas: 7440-02-0  
RTECS #: QR5950000  
Name: NICKEL  
< Wt: 4.  
OSHA PEL: 1 MG/M3  
ACGIH TLV: 1 MG/M3  
ACGIH STEL: NOT ESTABLISHED  
EPA Rpt Qty: 100 LBS  
DOT Rpt Qty: 100 LBS

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Cas: 7440-47-3  
RTECS #: GB4200000  
Name: CHROMIUM  
< Wt: 3.  
OSHA PEL: 1 MG/M3  
ACGIH TLV: 0.5 MG/M3  
ACGIH STEL: NOT ESTABLISHED  
EPA Rpt Qty: 1 LB  
DOT Rpt Qty: 1 LB

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Cas: 7440-50-8  
RTECS #: GL5325000  
Name: COPPER  
< Wt: 1.  
OSHA PEL: 1 MG/M3  
ACGIH TLV: 1 MG/M3  
ACGIH STEL: NOT ESTABLISHED  
EPA Rpt Qty: 5000 LBS  
DOT Rpt Qty: 5000 LBS

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Health Hazards Data  
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Route Of Entry Inds - Inhalation: YES  
Skin: YES  
Carcinogenicity Inds - NTP: YES

IARC: YES

OSHA: YES

Effects of Exposure: IRON, IRON OXIDE: NONE KNOWN. TREAT AS NUISANCE DUST.

MAGNESIUM, MAGNESIUM OXIDE, COPPER & MANGANESE: METAL FUME FEVER.

ALUMINUM OXIDE & TITANIUM DIOXIDE: IRRITATION OF RESPIRATORY SYSTEM.

CALCIUM OXIDE & SILICA: MAY CAUSE IRRITATION OF RESPIRATORY SYSTEM, SKIN

& EYES. FLUORIDES: MAY CAUSE SKIN & EYE BURNS, PULMONARY EDEMA,

BRONCHITIS. MOLYBDENUM: IRRITATION OF EYES, NOSE & THROAT. NICKEL &

NICKEL COMPOUNDS: METALLIC TASTE, METAL FUME FEVER, ALLERGIC REACTION.

CHROMIUM: INHALATION DUST/FUME-IRRITATION OF RESPIRATORY SYSTEM, LUNG

DAMAGE, ASTHMA-LIKE SYMPTOMS. SWALLOWING-SEVERE INJURY, DEATH. DUST ON

SKIN-ULCERS. ALLERGIC REACTION.

Explanation Of Carcinogenicity: CHROMIUM VI AND NICKEL COMPOUNDS MUST BE

CONSIDERED CARCINOGENS UNDER OSHA (29 CFR 1910.1200). CHROMIUM VI CAN

COMPOUNDS ARE CLASSIFIED IARC GROUP 1 AND NTP GROUP 1 CARCINOGENS. NICKEL

COMPOUNDS ARE CLASSIFIED AS IARC GROUP 1 AND NTP GROUP 1 CARCINOGENS.

WELDING

FUMES MUST BE CONSIDERED AS POSSIBLE CARCINOGENS UNDER OSHA (29 CFR

1910.1200).

Signs And Symptoms Of Overexposure: DIZZINESS, NAUSEA, DRYNESS OR IRRITATION

OF EYES/NOSE/THROAT/RESPIRATORY TRACT. METAL FUME FEVER: CHILLS, FEVER,

UPSET

STOMACH, ACHING. TIGHTNESS IN CHEST.

Medical Cond Aggravated By Exposure: PERSONS WITH PRE-EXISTING IMPAIRED LUNG

FUNCTIONS (ASTHMA-LIKE CONDITIONS).

First Aid: CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY

THE AMERICAN RED CROSS. EYES & SKIN: IF IRRITATION OR FLASH BURNS DEVELOP

AFTER EXPOSURE, CONSULT A PHYSICIAN.

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Handling and Disposal

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Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING SURROUNDING

ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, CONTAINER OR LINER IN AN

ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE

AND LOCAL REGULATIONS.

Handling And Storage Precautions: MAINTAIN EXPOSURE BELOW PEL(S)/TLV(S).

ALWAYS USE EXHAUST VENTILATION. USE INDUSTRIAL HYGIENE MONITORING TO ENSURE

THAT USE OF THIS MATERIAL DOES NOT CREATE EXPOSURES WHICH EXCEED THE

PEL/TLV(S).

Other Precautions: REFER TO THE FOLLOWING SOURCES FOR ADDITIONAL INFORMATION:

ANSI Z49.1 FROM THE AMERICAN WELDING SOCIETY, PO BOX 351040, MIAMI, FLA.

OSHA

(29 CFR 1910) FROM THE US DEPARTMENT OF LABOR, WASHINGTON, DC 20210.

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Fire and Explosion Hazard Information

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Flash Point Text: NONFLAMMABLE

Unusual Fire/Explosion Hazard: WELDING CONSUMABLES APPLICABLE TO THIS MSDS AS

SHIPPED ARE NONREACTIVE, NONFLAMMABLE, NONEXPLOSIVE AND ESSENTIALLY

NONHAZARDOUS UNTIL WELDED. WELDING ARCS AND SPARKS CAN IGNITE COMBUSTIBLES

AND FLAMMABLE PRODUCTS. SEE AMERICAN NATIONAL STANDARD Z49.1.

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Control Measures

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Respiratory Protection: USE NIOSH APPROVED OR EQUIVALENT FUME RESPIRATOR OR

AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOCAL

EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW PEL/TLV'S.

Ventilation: USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC OR BOTH TO KEEP THE FUMES AND GASES BELOW PEL/TLVS FOR WORKER'S BREATHING ZONE AND THE GENERAL AREA.

Protective Gloves: WELSER'S GLOVES.

Eye Protection: HELMET WITH PROTECTIVE FACE SHIELD WITH FILTER LENSES. BEGIN WITH SHADE # 14.

Other Protective Equipment: PROTECTIVE SCREENS, ARM PROTECTORS, HATS, SHOULDER PROTECTION, DARK NONSYNTHETIC CLOTHING.

Work Hygienic Practices: USE INDUSTRIAL HYGIENE MONITORING TO ENSURE THAT USE OF THIS MATERIAL DOES NOT CREATE EXPOSURES WHICH EXCEED THE PEL/TLVS.

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Physical/Chemical Properties  
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HCC: N1

Appearance and Odor: SOLID & NONVOLATILE AS SHIPPED.

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Reactivity Data  
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Hazardous Decomposition Products: WELDING FUMES AND GASES CANNOT BE CLASSIFIED

SIMPLY. THE COMPOSITION AND QUALITY OF BOTH ARE DEPENDENT UPON THE METAL BEING WELDED, THE PROCESS, THE PROCEDURES AND ELECTRODES USED.

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Toxicological Information  
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Ecological Information  
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MSDS Transport Information  
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Regulatory Information  
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State Regulatory Information: WARNING: THIS PRODUCT CONTAINS OR PRODUCES CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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Other Information  
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Other Information: HAZARDOUS DECOMPOSITION PRODUCTS: REASONABLY EXPECTED CONSTITUENTS: COMPLEX OXIDES OF IRON, MANGANESE, SILICON AND TITANIUM. FLUORIDES, MOLYBDENUM, COPPER CHROMIUM & NICKEL MAY BE PRESENT.

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Transportation Information  
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Responsible Party Code: T0696

Trans ID NO: 153264

Product ID: 91B3L-V85C1, CARBON AND LOW ALLOY STEEL

MSDS Prepared Date: 07/01/1998

Review Date: 05/30/2000

MFN: 1

Net Unit Weight: UNKNOWN

Multiple KIT Number: 0

Unit Of Issue: LB

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Detail DOT Information  
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DOT PSN Code: ZZZ  
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail IMO Information

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IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

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Detail IATA Information

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IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail AFI Information

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AFI PSN Code: ZZZ  
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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HAZCOM Label

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Product ID: 91B3L-V85C1, CARBON AND LOW ALLOY STEEL

Cage: TO696

Assigned IND: Y

Company Name: ITW HOBART BROTHERS

Street: 8585 INDUSTRY PARK DRIVE

City: PIQUA OH

Zipcode: 45356

Health Emergency Phone: (800)424-9300

Label Required IND: Y

Date Of Label Review: 05/30/2000

Status Code: A

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight

Contact Hazard: None

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: ELECTRIC ARC WEDLINGMAY CREATE ONE OR MORE OF THE FOLLOWING HEALTH HAZARDS: ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL. FUMES AND AGSES CAN BE DANGEROUS TO YOUR HEALTH. TARGET ORGANS: NO DATA PROVIDED BY RESPONSIBLE PAR TY. FIRST AID: CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS. EYES & SKIN: IF IRRITATION OR FLASH BURNS DEVELOP AFTER EXPOSURE, CONSULT A PHYSICIAN.

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