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ESAB WELDING & CUTTING PRODUCTS -- ESAB TUNGSTEN ELECTRODES -- 3439-00-045-3607

Product ID:ESAB TUNGSTEN ELECTRODES

MSDS Date:10/01/1999

FSC:3439

NIIN:00-045-3607 Status Code:A

MSDS Number: CLQHJ === Responsible Party ===

Company Name: ESAB WELDING & CUTTING PRODUCTS

Box:100545 City:FLORENCE

State:SC

ZIP:29501-0545 Country:US

Info Phone Num: (843) 669-4411

Emergen

cy Phone Num:803-664-4474

Preparer's Name: MANAGER, PRODUCT SAFETY

CAGE:1C9X2

=== Contractor Identification ===

Company Name: ESAB WELDING & CUTTING PRODUCTS

Box:100545 City:FLORENCE

State:SC

ZIP:29501-0545 Country:US

Phone: (843) 669-4411

CAGE:1C9X2

Company Name: J.G.B. ENTERPRISES Address: 115 METROPOLITAN DR

Box:209

City:LIVERPOOL

State:NY ZIP:13088 Country:US

Phone:315-451-2770

Contract Num:SP0400-00-AB-989-1684

CAGE:61125

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

Ing

red Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000 Minumum % Wt:98. Maxumum % Wt:100.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:NOE ESTABLISHED ACGIH TLV:1 MG/M3/3 STEL; 9596

Ingred Name: CERIUM DIOXIDE

CAS:1345-13-7

RTECS #:FK6400000

Minumum % Wt:0.

Maxumum % Wt:2.

Other REC Limits: NONE RECOMMENDED

Ingred Name:LANTHANUM OXIDE

CAS:1312-81-8 Minumum % Wt:0. Maxumum % Wt:2.

Other REC Limits: NONE RECOMMENDED

Ingred Name: THORIUM DIOXIDE (SARA 313)

CAS:1314-20-1

RTECS #:XO6950000 Minumum % Wt:0.

Ма

xumum % Wt:2.

Other REC Limits: NONE RECOMMENDED

Ingred Name:ZIRCONIUM OXIDE

CAS:1314-23-4

RTECS #:ZH8800000

Minumum % Wt:0.

Maxumum % Wt:1.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG/M3 TWA

OSHA STEL:5 MG/M3 REVOKED

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE

Health Hazards Acute and Chronic:ELECTRODES ARE NOT HAZARDOUS AS

SHIPPED/STORED. HAZARD OCCURS WHEN USED

IN ELECTRIC ARC WELDING OR

OXY-FUEL AS PROCESSES. FUMES & GASES MAY BE DANGEROUS VIA INHALATION. HEAT & ARC RAYS CAN INJURE EYE S AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Explanation of Carcinogenicity:THORIUM DIOXIDE HAS BEEN IDENTIFIED AS A CARCINOGEN BY NTP, IARC AND OTHERS. EVIDENCE FOR ITS ABILITY TO CAUSE CANCER HAS COME SOLELY FROM ITS INTERNAL MEDICAL USE.

Effects of Overexposure:SHORT TERM OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DIZZINESS, NAUSEA, DRYNESS/IR

RITATION OF NOSE, THROAT,

EYES. LONG TERM EXPOSURE TO WELDING FUMES CAN LEAD TO SIDEROSIS (IRON DEPOSITS IN THE LUNG S) AND AFFECT PULMONARY FUNCTIONS.

Medical Cond Aggravated by Exposure:ALLERGIC REACTION IS POSSIBLE IN SENSITIVE INDIVIDUALS, HOWEVER SUCH REACTION CANNOT BE PREDICTED DUE TO VARIATION IN COMPOSITION AND QUANTITY OF THE DECOMPOSED PRODUCTS.

First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID T ECHNIQUES RECOMMENDED

BY THE AMERICAN RED CROSS. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. IF NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION, PREFE RABLY MOUTH-TO-MOUTH. IF NO DETECTABLE PULSE, BEGIN EXTERNAL HEART MASSAGE. IMMEDIATELY CALL A PHYSICIAN.

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

Flash Point:NONFLAMMABLE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN

Extinguishing Media: NONFLAMMABLE. USE EXTINGUISHING MEDIA SUITABLE FOR

SURROUNDING FIRE.

Fire Fighting Procedures: NONFLAMMABLE. USE STANDARD FIREFIGHTING PROCEDURES FOR SURROUNDING MATERIALS IN THE FIRE.

Unusual Fire/Explosion Hazard:NONFLAMMABLE. WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLE AND FLAMMABLE PRODUCTS. SEE ANSI Z49.1 "SAFETY IN WELDING AND CUTTING" FOR FIRE PREVENTION, ETC.

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

Spill Release Procedures:COLLECT FOR REUSE OR DISPOSAL. Neutralizing Agent:NONE SPECIFIED BY MANUF

ACTURER.
============= Handling and Storage =============
Handling and Storage Precautions:THORIUM DIOXIDE IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986. Other Precautions:TUNGSTEN ELECTRODES ARE NON-CONSUMABLE. HOWEVER, SOME LOSS OF ELECTRODE METAL MAY OCCUR DEPENDING ON WELDING CONDITIONS. THE COMPOSITION AND QUANTITY OF WELDING FUMES AND GASES ARE DEPENDENT UPON THE META L BEING WELDED, THE PROCESS/PROCEDUR
====== Exposure Controls/Personal Protection ========
Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV. SELECT AS PER OSHA 29 CFR 1910.134.
Ventilation:USE ENOUGH VENTILATION LOCAL EXHAUST AT THE ARC OR BOTH TO KEEP THE FUMES AND GASES BELOW TLVS IN WORKERS BREATHING ZONE Protective Gloves:WELDER 'S GLOVES WHEN WELDING.
Eye Protection:HELMET, FOFFLES OR FACE SHEILD W/FILTER Other Protective Equipment:WEEAR HAND, HEAD AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS. SEE ANSI Z49.1. Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. Supplemental Safety and Health
WELDER SHOULD BE TRAINED TO KEEP HIS HEAD OUT OF FUMES AND NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.
========= Physical/Chemical Properties ==========
HCC:N1 Boiling Pt:=3126.7C, 5660.F Melt/Freeze Pt:=1876.7C, #####F Spec Gravity:19.3 pH:NA
Evaporation Rate & Description R
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES

Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoi

d:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products: GASEOUS REACTION PRODUCTS FROM WELDING ARC MAY INCLUDE OXIDES OF CARBON, OZONE & NITROGEN OXIDES MAY BE FORMED BY RADIATION FROM THE ARC. ======== Toxicological Information =========== Toxicological Information: ACGIH 1988-1989 RECOMMENDED LIMIT FOR WELDING FUME, NOT OTHERWISE CLASSIFIED (NOC) IS 5 MG/M3. TLV-TWA'S SHOULD BE USED AS GUIDE IN THE CONTROL OF HEALTH HAZARDS AND NOT AS FINE NES BETWEEN SAFE AND DANGEROUS CONCENTRATIONS. ======= Disposal Considerations ============== Waste Disposal Methods: DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. ========= Regulatory Information ================ SARA Title III Information: THORIUM DIOXIDE IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III O F THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986. State Regulatory Information: CALIFORNIA PROPOSITION 65 - THIS PRODUCT WHEN USED FOR WELDING/CUTTING PRODUCES FUMES OR GASES WHICH CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER,

BIRTH DEFECTS: CARBON MONOXIDE, THORIUM DIOXIDE. INGREDIENTS OF THIS PRODUCT ARE LISTED ON RIGHT-TO-ACT OF FOLLOWING STATES: MA,

Disclaim

NJ, PA.

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