

BRUSH WELLMAN INC ELMORE PLANT -- THERMALOX 995 -- 5970-00-686-1674

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

Product ID:THERMALOX 995  
MSDS Date:12/01/1990  
FSC:5970  
NIIN:00-686-1674  
MSDS Number: BRLYP  
=== Responsible Party ===  
Company Name:BRUSH WELLMAN INC ELMORE PLANT  
Address:14710 W PORTAGE RIVER SOUTH RD  
City:ELMORE  
State:OH  
ZIP:43416-9502  
Country:US  
Info Phone Num:419-862-2745  
Emergency Phone Num:41  
9-862-2745(CHEMTREC 800-424-9300)  
Preparer's Name:MARC KOLANZ  
CAGE:4B151  
=== Contractor Identification ===  
Company Name:BRUSH WELLMAN INC.  
Address:14710 W PORTAGE RIVER S ROAD  
Box:City:ELMORE  
State:OH  
ZIP:43416-9502  
Country:US  
Phone:800-862-4118; -4177 (FAX)  
CAGE:4B151

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

Ingred Name:BERYLLIUM OXIDE  
CAS:1304-56-9  
RTECS #:DS4025000  
Fraction by Wt: 100%  
Other REC Limits:NONE SPECIFIED

Ingred Name:BERYLLIUM (SARA III)  
CAS:7440-41

-7  
RTECS #:DS1750000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 UG/M3  
ACGIH TLV:0.002PPM; A2; 9293

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: SKIN ABRASION MAY CAUSE IRRITATION. DUST MAY CAUSE MECHANICAL IRRITATION OF EYES. CHRONIC: PROLONGED OR REPEATED INHALATION OF HIGH CONCENTRATIONS OF BERYLLIUM DUST MAY CAUSE SERIOUS LUNG DISEASE (BERYLLIOSIS). PROLONGED OR REPEATED EXPOSURE HAS THE POTENTIAL FOR CAUSING CANCER.  
Explanation of Carcinogenicity:BERYLLIUM IS LISTED AS AN ANTICIPATED CARCINOGEN BY NTP AND AS A 2A CARCINOGEN BY IARC.  
Effects of Overexposure:INHALATION: COUGH, CHEST PAIN, SHORTNESS OF BREATH, WEIGHT LOSS, WEAKNESS, AND FATIGUE. EYES: REDNESS, DISCOMFORT. INGESTED:Medical Cond Aggravated by Exposure:PERSONS WITH IMPAIRED LUNG FUNCTION, AIRWAY DISEASES, OR CONDITIONS SUCH AS ASTHMA, BRONCHITIS MAY INCUR FURTHER IMPAIRMENT IF EXCESSIVE CONCENTRATIONS OF DUST OR FUME ARE INHALED.

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

First Aid:INHALED: REMOVE TO FRESH AIR. GIVE RESPIRATORY SUPPORT AS NEEDED. SEE DOCTOR IF SYMPTOMS PERSIST. EYES: FLUSH WITH LOTS OF WATER, HOLD LIDS OPEN. SEE DOCTOR. SKIN: WASH WITH SOAP AND WATER. SEE DOCTOR IF IRRITATION PERSISTS. INGESTED: IF CONSCIOUS, GIVE WATER. GET MEDICAL HELP.

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

Flash Point:NONE  
Autoignition Temp:Autoignition Temp Text:NONE  
Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL BUNKER GEAR.  
Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:MINIMIZE DUST FORMATION. NO SPECIAL PRECAUTIONS UNLESS DUST FORMED; THEN ISOLATE

ATE AND REQUIRE

RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING. VACUUM WITH VACUUM EQUIPPED WITH HEPA FILTER. IF SPILL EXCEEDS RQ, REPORT TO PROPER AUTHORITIES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:IF DUST IS GENERATED DURING THE USE OR MAINTENANCE OF THIS ITEM, PERIODIC LUNG FUNCTION TESTS, CHEST X-RAYS AND PHYSIC

AL

EXAMS SHOULD BE USED TO MONITOR THE POTENTIAL EFFECTS OF DUST OR FUME EXPOSURE.

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

Respiratory Protection:IF HIGH CONCENTRATIONS OF DUST IS GENERATED AND ENGINEERING CONTROLS FAIL OR AN EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR WITH HEPA CARTRIDGE. USE IN ACCORDANCE WITH 29 CFR 1910.134.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION WITH HEPA FILTRATION IF DUST IS GENERATED DURING REPAIR OF THIS ITEM.

Protective Gloves:NONE NORMALLY REQUIRED.

Eye Protection:NONE NORMALLY REQUIRED.

Other Protective Equipment:FULL WORK CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT. EYE WASH STATION AVAILABLE.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. DO NOT WEAR CONTACT LENSES IF DUSTY CONDITIONS OCCUR.

Supplemental Safety and Health

MSDS PROVIDED FOR ITEM FOR USE IF ITEM HAS TO BE REPAIRED, CUT, OR GROUND. ITEM IS AN ARTICLE UNDER 29 CFR 1900.1200.

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:4617F,2547C

Spec Gravity:2.86 (WATER=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:5/8 INCH DIAMETER WHITE CERAMIC BUSHING.

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:NONE

=====  
===== Dispos

al Considerations =====

Waste Disposal Methods:RECYCLE IF POSSIBLE. IF NOT, SEAL IN 2 PLASTIC BAGS, PLACE IN DOT CONTAINER FOR POISON B COMPOUNDS. LABEL W DOT HAZ WARNINGS LABELS & SHIP TO APPROVED HAZ WASTE DISPOSAL SITE.

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.