

MOUNT SAVAGE SPECIALTY REFRACTORIES -- MIL-C-19794 LIGHTWEIGHT CASTABLE --
9350-00-558-0457

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

Product ID:MIL-C-19794 LIGHTWEIGHT CASTABLE
MSDS Date:12/01/1992
FSC:9350
NIIN:00-558-0457
MSDS Number: BRDJN
=== Responsible Party ===
Company Name:MOUNT SAVAGE SPECIALTY REFRACTORIES
Address:736 WEST INGOMAR ROAD
City:INGOMAR
State:PA
ZIP:15127
Country:US
Info Phone Num
:412-367-9100
Emergency Phone Num:412-367-9100
CAGE:15030

=== Contractor Identification ===
Company Name:MOUNT SAVAGE SPECIALTY REFRACTORIES
Address:736 WEST INGOMAR ROAD
Box:City:INGOMAR
State:PA
ZIP:15127
Country:US
Phone:412-367-9100
CAGE:15030

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

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS
FORMS) (SARA III)
CAS:1344-28-1
RTECS #:BD1200000
Fraction by Wt: 53.1%
Other REC Limits:NONE RECOMMENDED
OS

HA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SILICA, CRYSTALLINE - QUARTZ
CAS:14808-60-7
RTECS #:VV7330000
Fraction by Wt: 37.2%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE TABLE Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:IRON OXIDE (FE2O3)
CAS:1309-37-1
RTECS #:NO7400000
Fraction by Wt: 0.6%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG/M3 (FE)
ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:CALCIUM OXIDE
CAS:1305-78-8
RTECS #:EW3100000
Fraction by Wt: 7.1%
Other REC
Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3
ACGIH TLV:2 MG/M3; 9293

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Fraction by Wt: 2.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: CONTACT MAY CAUSE EYE AND SKIN
IRRITAT

ION, ALLERGIC DERMATITIS IN SENSITIVE INDIVIDUALS.

INHALATION MAY CAUSE INFLAMMATION AND UPPER RESPIRATORY TRACT IRRITATION. PHYSICAL INJURY DUE TO STEAM S PALLING. CHRONIC: SILICOSIS.

Effects of Overexposure:EYES: IRRITATION, ABRASION. SKIN: IRRITATION, BURNS, ALLERGIC SENSITIZATION. INHALATION: IRRITATION OF NOSE AND THROAT, COUGHING.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH A HISTORY OF RESPIRATORY OR SKIN CONDITIONS MAY BE AT INCREASED RISK.

=====

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

First Aid:EYES: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET PROMPT MEDICAL ATTENTION. DO NOT RUB EYES. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEE DOCTOR. INHALA TION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED. SEE DOCTOR. INGESTION: DRINK LARGE AMOUNT OF WATER, INDUCE VOMITING. SEE DOCTOR.

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

Exting

uishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

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 SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:VENTILATE. CLEAN UP USING METHODS THAT AVOID DUST GENERATION SUCH AS VACUUM AND PLACE IN APPROPRIATE DISPOSAL CONTAINER AND COVER.

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

Handling and Storage Precautions:PREVENT GENERATION OF DUST DURING HANDLING, USE, AND CLEAN-UP TO AVOID EYE AND SKIN CONTACT AND BREATHING OF DUST.

Other Precautions:PROPER REFRACTORY PRACTICE MUST BE FOLLOWED FOR CURING AND FIRING TO SERVICE TEMPERATURES.

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

Respiratory Protection:USE NIOSH/

MSHA-APPROVED RESPIRATOR WITH DUST
CARTRIDGE IF TLV IS EXCEEDED.

Ventilation:LOCAL EXHAUST TO MAINTAIN EXPOSURE LEVEL BELOW TLV.

Protective Gloves:PROTECTIVE GLOVES.

Eye Protection:SAFETY GLASSES W/SIDE SHIELD OR GOGGLES.

Other Protective Equipment:PROTECTIVE CLOTHING TO PREVENT
PROLONGED/REPEATED SKIN CONTACT. EYE WASH STATION AND SAFETY
SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. DO NOT SHAKE
CLOTHING. REMOVE DUST BY WASHING OR VACUUMING.

Supplemental Safety
and Health
NONE.

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:>2000F,>109

Solubility in Water:NEGLIGIBLE

Appearance and Odor:GRANULAR SOLID, BROWN TO WHITE, NO DISTINCT ODOR.

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

Stability Indicator/Materials to Avoid:YES

WHEN COMBINED WITH WATER IT HARDENS IN 1 TO 8 HOURS WITH EVOLUTION OF
MODERATE HEAT.

Stability Condition to Avoid:NONE.

Hazardous Decomposition Pr
oducts:NONE.

===== Disposal Considerations =====

Waste Disposal Methods:NOTIFY YOUR LOCAL ENVIRONMENTAL OFFICER. KEEP IN
COVERED CONTAINERS PENDING DISPOSAL. DISPOSE OF IN ACCORDANCE WITH
FEDERAL, STATE AND 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.