

NEW ENGLAND ORDNANCE -- M-21 ARTILLERY FLASH SIMULATOR -- 1370-01-128-0418

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

Product ID:M-21 ARTILLERY FLASH SIMULATOR

MSDS Date:03/18/1994

FSC:1370

NIIN:01-128-0418

Status Code:A

MSDS Number: CJWFL

=== Responsible Party ===

Company Name:NEW ENGLAND ORDNANCE

Address:WHIPPLE RD

Box:125

City:GUILD

State:NH

ZIP:03754-0125

Country:US

Info Phone Num:603-863-7700

Emergen

cy Phone Num:1-800-225-3924

Preparer's Name:RUSSELL MITCHELL

CAGE:1EJ07

=== Contractor Identification ===

Company Name:NEW ENGLAND ORDNANCE

Address:WHIPPLE RD

Box:125

City:GUILD

State:NH

ZIP:03754-0125

Country:US

Phone:603-863-7700

CAGE:1EJ07

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

Ingred Name:BARIUM NITRATE

CAS:10022-31-8

RTECS #:CQ9625000

OSHA PEL:.5 MG (BA)/M3

ACGIH TLV:.5 MG (BA)/M3

Ingred Name:POTASSIUM NITRATE

CAS:7757-79-1

RTECS #:TT3700000

Ingred Name:ALU

MINUM  
CAS:7429-90-5  
RTECS #:BD0330000  
OSHA PEL:5 MG/M3 (RESP)  
ACGIH TLV:5 MG/M3 (RESP)

Ingred Name:CHARCOAL  
CAS:16291-96-6  
RTECS #:FL7243500

Ingred Name:SULFUR  
CAS:7704-34-9  
RTECS #:WS4250000

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

Health Hazards Acute and Chronic:THIS DEVICE IS A SEALED ARTICLE AND AS SUCH DOES NOT PRESENT A HEALTH HAZARD, EXCEPT WHEN IGNITED (SEE FIRE EXPLOSION HAZARD DATA).

===== First Aid Measures =====  
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First Aid:PREFERRED CLEAN UP METHOD SWEEPS MATERIAL WITH A NATURAL FIBER (NEW HAIR) OR NON-SPARKING METAL WIRE BRUSH INTO A METAL OR CONDUCTIVE DUST PAN THEN INTO A CONDUCTIVE OR METAL CONTAINER.

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

Autoignition Temp:=260.C, 500.F  
Extinguishing Media:THESE UNITS CONTAIN BOTH FUEL AND OXYGEN SOURCE AND CANNOT BE EXTINGUISHED BY NORMAL MEANS.  
Fire Fighting Procedures:CLEAR IMMEDIATE AREA, CONTROL AND MINIMIZE

RESULTANT FIRES. COOLING ADJACENT AREAS MAY EFFECTIVELY REDUCE FIRE DAMAGE. EXPECT REPEATED SMALL CONCESSIVE EXPLOSIONS WHEN SHIPPING BOXES ARE INVOLVED.

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

Spill Release Procedures:BROKEN UNITS MAY SPILL PYROTECHNIC POWDER. MATERIAL SHOULD BE CLEANED UP AND INCINERATED OR BURNED REMOTELY. CLEAN UP EFFORT SHOULD IMPLEMENT ELECTROSTATIC ENERGY CONTROLS AND AVOID USE OF WATER A S A CLEANING AGENT. PYROT

TECHNIC POWDERS SHOULD  
NOT BE VACUUMED EXCEPT THROUGH GROUNDED CONDUCTIVE HOSES AND BY  
EXPLOSION PROOF NEC CLASS II DIV. I APPROVED VACUUM SYSTEMS.

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

Handling and Storage Precautions: WARNING! EXPLOSIVE ARTICLE MUST BE  
STORED IN ACCORDANCE WITH 29CFR1910.109 OR MORE STRINGENT MILITARY  
REGULATION SUCH AS AMCR 385-100, AFR 127-100, DOD 4145.26M KEEP  
AWAY FROM HEAT, SPARKS, IMPACT FRICTION, RF, ETC.

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Exposure Controls/Personal Protection =====

Supplemental Safety and Health  
UNDER NORMAL HANDLING NO SPECIAL PROTECTION IS REQUIRED. DURING USE  
EAR PROTECTION AND ADEQUATE SHIELDING SHOULD PROTECT OPERATOR FROM  
EXPLOSIVE EFFECTS OF THIS ARTICLE WHILE IT FUNCTIONS.

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

HCC:E1  
Appearance and Odor: APPROX 4" LONG (2" DIA) WHITE PLASTIC CYLINDER WITH  
SMALLER WHITE END CAP

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

Stability Condition to Avoid: THIS ARTICLE IS NOT REACTIVE AS A SEALED  
UNIT.

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

Waste Disposal Methods: WASTE MATERIALS SHOULD BE BURNED REMOTELY.

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