1. IDENTIFICATION

Product Identifier
Product Name: D60 Series & D80 Series (Electric Squib)

Other Means of Identification
SDS #: DLM-001

Synonyms: D60-1/4, D60-1/2, D60-1, D60-2, D60-3, D60-6, D60-6M
D80-1/32, D80-1/16, D80-1/8, D80-1/4, D80-1/2, D80-1, D80-2
Micro Hits

Recommended Use of the Chemical and Restrictions on Use
Recommended Use: Electric squib and simulated bullet hits.
Details of the Supplier of the Safety Data Sheet
Supplier Address: De La Mare Engineering, Inc.
1910 First St.
San Fernando, CA 91340

Emergency Telephone Number
Company Phone Number: 1-818-365-9208
Emergency Telephone: INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification
This product is hazardous to health only when it is detonated or the contents are released from the encapsulated device

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Category 1A</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2</td>
</tr>
<tr>
<td>Explosives</td>
<td>Division 1.4</td>
</tr>
</tbody>
</table>

Signal Word
Danger

Hazard Statements
Harmful if swallowed
Harmful if inhaled
May cause cancer
May damage fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure
Fire or projection hazard
Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Do not eat, drink or smoke when using this product
Wash any exposed skin thoroughly after handling if exposed to internal chemical from damaged devices
Use only outdoors or in a well-ventilated area
Do not breathe dust or gas
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Do not subject to grinding/shock/friction
Ground/bond equipment and your person

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF SWALLOWED: Call a poison center or doctor/physician
Rinse mouth
In case of fire: Evacuate area
DO NOT fight fire when fire reaches explosives
Fight fire with normal precautions from a reasonable distance

Precautionary Statements - Storage
Store locked up
Store in accordance with local regulations

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)
Not Applicable

Other Information
• Very toxic to aquatic life with long lasting effects
• Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro-, lead salt</td>
<td>15245-44-0</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

First Aid Measures

General advice If exposed or concerned: Get medical advice/attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Ingestion Drink plenty of water. Induce vomiting, but only if victim is fully conscious. Call a physician.

Skin Contact Wash with soap and water.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms Fatigue, insomnia, anorexia, malnutrition, constipation, abdominal pain, colic, blue gums, hypotension, and anemia. Lead will damage central nervous system, kidneys, blood, gingival tissues, and reproductive system.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water. Foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
High explosive contents-sensitive to friction, shock, heat, and electrostatic discharge. Radar and radio transmitters may set off non-shunted squibs.


Sensitivity to Mechanical Impact Yes.
Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Fight fire from an explosion resistant location.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Remove all sources of ignition. Keep spill wet with water. Wear approved respirator.

Other Information Anticipated release would only be from a damaged device.
Environmental Precautions
See Section 12 for additional ecological information. Prevent runoff from entering drains, sewers or streams.

Methods and Material for Containment and Cleaning Up

Methods for Containment
Prevent further leakage or spillage if safe to do so. Dike spill and prevent spill from entering sewers and waterways.

Methods for Cleaning Up
Keep spill wet with water. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Advisory on Safe Handling
Do not cut or alter device. Do not remove squibs from protective package or open wire shunts until ready to use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Use only in well-ventilated areas. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not breathe dust or gas. Ground yourself and equipment to eliminate static electric sparks.

Conditions for Safe Storage, Including any Incompatibilities
Storage Conditions
All storage magazines must be safely located, or approved design and securely locked. Do not store improperly with other explosives (severe physical injury or death may occur from detonation). Store in accordance with all state, local, and federal regulations.

Incompatible Materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro-, lead salt 15245-44-0</td>
<td>-</td>
<td>-</td>
<td>IDLH: 100 mg/m³ Pb</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 0.050 mg/m³ Pb</td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls
Engineering Controls
Apply technical measures to comply with the occupational exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection
Face shield/goggles appropriate for high explosive handling.

Skin and Body Protection
Coveralls and impervious boots if squib contents are spilled.

Respiratory Protection
Not required for intact devices-use particulate respirator for damaged devices.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Use anti-static precautions such as personal grounding work on straps, grounded and conductive surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State
Solid
10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions

Chemical Stability
Unstable at 235°C.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization
Hazardous polymerization does not occur.

Conditions to Avoid

Incompatible Materials

Hazardous Decomposition Products

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure
**Product Information**

Product presents a hazard to health only when detonated or contents are released from encapsulated device

**Inhalation**

Harmful if inhaled.

**Eye Contact**

Avoid contact with eyes.

**Skin Contact**

Avoid contact with skin.

**Ingestion**

Harmful if swallowed.

**Component Information**

**Information on Physical, Chemical and Toxicological Effects**

**Symptoms**

Please see section 4 of this SDS for symptoms.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

**Carcinogenicity**

May cause cancer.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro-, lead salt</td>
<td></td>
<td>Group 3</td>
<td>Reasonably Anticipated</td>
<td>X</td>
</tr>
</tbody>
</table>

*IARC (International Agency for Research on Cancer)*

Group 3 IARC components are “not classifiable as human carcinogens”

*NTP (National Toxicology Program)*

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**Reproductive toxicity**

May damage fertility or the unborn child.

**STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Numerical Measures of Toxicity- Product**

Not determined

The following values are calculated based on chapter 3.1 of the GHS document.

- ATEmix (oral) 500 mg/kg
- ATEmix (inhalation-dust/mist) 1.5 mg/l

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very toxic to aquatic life Very toxic to aquatic life with long lasting effects

**Persistence and Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined.
Other Adverse Effects  Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes  Dispose of in accordance with federal, state and local regulations. Please contact manufacturer for more detailed disposal information.

Contaminated Packaging  Disposal should be in accordance with applicable regional, national and local laws and regulations.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro-, lead salt</td>
<td>Ignitable</td>
</tr>
<tr>
<td>15245-44-0</td>
<td>Reactive Toxic</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

Note  Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT  Please contact manufacturer for most current information

IATA  Please contact manufacturer for most current information

IMDG  Please contact manufacturer for most current information

15. REGULATORY INFORMATION

International Inventories

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro-, lead salt - 15245-44-0</td>
<td>15245-44-0</td>
<td>Proprietary</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro-, lead salt</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>15245-44-0</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
US State Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro-, lead salt - 15245-44-0</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro-, lead salt - 15245-44-0</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

U.S. EPA Label Information

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
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</tbody>
</table>

Revision Date 01-Mar-2013

Revision Note
New format

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet