1 Identification

- **Product identifier**
  - **Trade name:** Triple Action Smoke Grenade, White Smoke
  - **Product code:** MP-3-WS

- **Recommended use and restriction on use**
  - **Recommended use:** Explosive product.
  - **Restrictions on use:** Contact manufacturer

- **Details of the supplier of the Safety Data Sheet**
  - **Manufacturer/Supplier:**
    NonLethal Technologies, Inc.
    9419 Rt 286 Hwy W
    Homer City, PA 15748
    USA
    +1 724-479-5100
    nlt@nonlethaltechnologies.com

- **Emergency telephone number:** 1-800-255-3924 (Intl.: +1 813-248-0585) (CHEMTEL # MIS9685256)

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Expl. 1.4 H204 Fire or projection hazard.

- **Label elements**
  - **GHS label elements**
    The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**

  ![GHS01](image)

- **Signal word:** Warning

- **Hazard statements:**
  - H204 Fire or projection hazard.

- **Precautionary statements:**
  - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - P250 Do not subject to grinding/shock/friction.
  - P280 Wear protective gloves / eye protection / face protection.
  - P373 DO NOT fight fire when fire reaches explosives.
  - P370+P380 In case of fire: Evacuate area.
  - P372 Explosion risk in case of fire.
  - P401 Store in accordance with local/regional/national/international regulations.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
  - There are no other hazards not otherwise classified that have been identified.

- **Explosive Product Notice**

  PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have (Cont'd. on page 2)
Trade name: Triple Action Smoke Grenade, White Smoke

been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.

WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Components:

<table>
<thead>
<tr>
<th>Component Code</th>
<th>Name</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-21-0</td>
<td>Terephthalic acid</td>
<td>25-40%</td>
</tr>
<tr>
<td>3811-04-9</td>
<td>Potassium chlorate</td>
<td>25-30%</td>
</tr>
<tr>
<td></td>
<td>Ox. Sol. 1; H271</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H332</td>
<td></td>
</tr>
<tr>
<td>546-93-0</td>
<td>Magnesium carbonate</td>
<td>10-20%</td>
</tr>
<tr>
<td>57-50-1</td>
<td>Sucrose, pure</td>
<td>10-20%</td>
</tr>
<tr>
<td>7757-79-1</td>
<td>Potassium nitrate</td>
<td>&lt;5%</td>
</tr>
<tr>
<td></td>
<td>Ox. Sol. 2; H272</td>
<td></td>
</tr>
<tr>
<td>9004-70-0</td>
<td>Nitrocellulose, colloidal, granular</td>
<td>&lt;5%</td>
</tr>
<tr>
<td></td>
<td>Explos. 1.1, H201</td>
<td></td>
</tr>
<tr>
<td>7440-21-3</td>
<td>Silicon</td>
<td>&lt;2%</td>
</tr>
<tr>
<td></td>
<td>Flam. Sol. 2; H228</td>
<td></td>
</tr>
<tr>
<td>10294-40-3</td>
<td>Barium chromate</td>
<td>&lt;2%</td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4; H302; Acute Tox. 4, H332</td>
<td></td>
</tr>
</tbody>
</table>

- Additional information:
For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements refer to section 16.

Notable Trace Components (< 0.1% w/w)

<table>
<thead>
<tr>
<th>Component Code</th>
<th>Name</th>
<th>Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>592-87-0</td>
<td>Lead dithiocyanate</td>
<td>Repr. 1A, H360; STOT RE 2, H373</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H332</td>
</tr>
</tbody>
</table>
Trade name: Triple Action Smoke Grenade, White Smoke

If skin irritation is experienced, consult a doctor.

- **After eye contact:**
  Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**
  Unlikely route of exposure. Do not induce vomiting; immediately call for medical help.

**Most important symptoms and effects, both acute and delayed:** Blast injury if mishandled.

**Danger:** Danger of blast or crush-type injuries.

**Indication of any immediate medical attention and special treatment needed:**
Product may produce physical injury if mishandled. Treatment of these injuries should be based on the blast and compression effects.

### 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**
  DO NOT fight fire when fire reaches explosives. Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.

- **For safety reasons unsuitable extinguishing agents:** None.

- **Special hazards arising from the substance or mixture**
  During heating or in case of fire poisonous gases are produced. Product may explode if burned in confined space. Individual cartridges may explode. Mass explosion of many cartridges at once is unlikely.

- **Advice for firefighters**

- **Protective equipment:**
  Wear self-contained respiratory protective device.
  Wear fully protective suit.

- **Additional information:**
  Eliminate all ignition sources if safe to do so.
  Cool endangered receptacles with water spray.
  Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2008 Emergency response Guidebook for further information.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
  Wear protective equipment. Keep unprotected persons away.
  Remove persons from danger area.
  Ensure adequate ventilation.
  Protect from heat.
  Isolate area and prevent access.

(Cont'd. on page 4)
Trade name: Triple Action Smoke Grenade, White Smoke

7 Handling and storage

· Handling
  · Precautions for safe handling: Handle with care. Avoid jolting, friction and impact.
  · Information about protection against explosions and fires: Protect from heat.
    Emergency cooling must be available in case of nearby fire.

· Conditions for safe storage, including any incompatibilities
  · Storage
    · Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat, ignition sources or open flame.
    · Information about storage in one common storage facility: Store away from foodstuffs.
      Store away from flammable substances.
    · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
  · Specific end use(s): No relevant information available.

8 Exposure controls/personal protection

· Control parameters
  · Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th></th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-21-0 terephthalic acid</td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 10* 3** mg/m³</td>
</tr>
<tr>
<td></td>
<td>*total dust; **respirable fraction</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>546-93-0 Magnesium carbonate</td>
<td></td>
</tr>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 15* 5** mg/m³</td>
</tr>
<tr>
<td></td>
<td>*total dust; **respirable fraction</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Long-term value: 10* 5** mg/m³</td>
</tr>
<tr>
<td></td>
<td>*total dust; **respirable fraction</td>
</tr>
</tbody>
</table>

(Cont’d. of page 3)
(Cont’d. on page 5)
### Trade name: Triple Action Smoke Grenade, White Smoke

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TLV (USA)</strong></td>
<td>TLV withdrawn</td>
</tr>
</tbody>
</table>
| **EL (Canada)** | Long-term value: $10^*3**$ mg/m$^3$  
*total dust, **respirable fraction |
| **EV (Canada)** | Long-term value: 10 mg/m$^3$  
total dust |
| **LMPE (Mexico)** | Short-term value: 20 mg/m$^3$  
Long-term value: 10 mg/m$^3$  
(e) |

#### 57-50-1 sucrose, pure

| **PEL (USA)** | Long-term value: $15^*5**$ mg/m$^3$  
*total dust **respirable fraction |
| **REL (USA)** | Long-term value: $10^*5**$ mg/m$^3$  
*total dust **respirable fraction |
| **TLV (USA)** | Long-term value: 10 mg/m$^3$ |
| **EL (Canada)** | Long-term value: $10^*3**$ mg/m$^3$  
*total dust; **respirable fraction |
| **EV (Canada)** | Long-term value: 10 mg/m$^3$  
total dust |
| **LMPE (Mexico)** | Long-term value: 10 mg/m$^3$  
A4 |

#### 7440-21-3 silicon

| **PEL (USA)** | Long-term value: $15^*5**$ mg/m$^3$  
*total dust **respirable fraction |
| **REL (USA)** | Long-term value: $10^*5**$ mg/m$^3$  
*total dust **respirable fraction |
| **TLV (USA)** | TLV withdrawn |
| **EL (Canada)** | Long-term value: $10^*3**$ mg/m$^3$  
*total dust; **respirable fraction |
| **EV (Canada)** | Long-term value: 10 mg/m$^3$  
total dust |
| **LMPE (Mexico)** | Short-term value: 20 mg/m$^3$  
Long-term value: 10 mg/m$^3$  
(e) |

#### 10294-40-3 barium chromate

| **PEL (USA)** | Long-term value: 0.005$^*$ mg/m$^3$  
Ceiling limit value: 0.1$^{**}$ mg/m$^3$  
*as Cr(VI) **as CrO$\text{\makebox[0pt][l]{3}}$; see 29 CFR 1910.1026 |
| **REL (USA)** | Long-term value: 0.0002 mg/m$^3$  
as Cr; See Pocket Guide Apps. A and C |
| **TLV (USA)** | Long-term value: 0.01 mg/m$^3$  
as Cr |
| **EL (Canada)** | Long-term value: 0.01 mg/m$^3$  
as Cr; ACGIH A1, IARC 1 |

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Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 06/23/2016
Revision: 06/23/2016

Trade name: Triple Action Smoke Grenade, White Smoke

<table>
<thead>
<tr>
<th>LMPE (Mexico)</th>
<th>Long-term value: 0.01 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A1; como Cr</td>
</tr>
</tbody>
</table>

- **Ingredients with biological limit values:**
  - **10294-40-3 barium chromate**
    - **BEI (USA)** 25 µg/L
      - **Medium:** urine
      - **Time:** end of shift at end of workweek
      - **Parameter:** Total chromium (fume)

- **Exposure controls**
  - **Personal protective equipment:**
  - **General protective and hygienic measures:**
    The usual precautionary measures for handling chemicals should be followed.
    Keep away from foodstuffs, beverages and feed.
    Wash hands before breaks and at the end of work.
  - **Engineering controls:** Provide adequate ventilation.
  - **Breathing equipment:** Not required under normal conditions of use.
  - **Protection of hands:**
    Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - **Eye protection:**
    Safety glasses

    Follow relevant national guidelines concerning the use of protective eyewear.
  - **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**
  No relevant information available.

- **Risk management measures**
  Organizational measures should be in place for all activities involving this product.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **Appearance:**
    - **Form:** Solid metal cylinder
    - **Color:** According to product specification
    - **Odor:** Odorless
    - **Odor threshold:** Not determined.
  - **pH-value:** Not applicable.
## Trade name: Triple Action Smoke Grenade, White Smoke

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/Melting range</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Fire or projection hazard.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>Heating may cause an explosion.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water</td>
<td>Insoluble.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Other information</td>
<td>No relevant information available.</td>
</tr>
</tbody>
</table>

## 10 Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No relevant information available.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td></td>
</tr>
<tr>
<td>Thermal decomposition / conditions to be avoided</td>
<td>No decomposition if used and stored according to specifications.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Fire or projection hazard.</td>
</tr>
<tr>
<td></td>
<td>Toxic fumes may be released if heated above the decomposition point.</td>
</tr>
<tr>
<td></td>
<td>Reacts with strong acids and alkali.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Excessive heat.</td>
</tr>
<tr>
<td></td>
<td>Sources of ignition, open flame, incompatible materials.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Oxidizers, strong bases, strong acids</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Carbon monoxide and carbon dioxide</td>
</tr>
<tr>
<td></td>
<td>Nitrogen oxides</td>
</tr>
</tbody>
</table>

(Cont'd. on page 8)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 06/23/2016
Revision: 06/23/2016

Trade name: Triple Action Smoke Grenade, White Smoke

Sulfur oxides (SOx)

(Cont’d. of page 7)

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      - 3811-04-9 potassium chlorate
        Oral LD50 1870 mg/kg (rat)
  - Primary irritant effect:
    - On the skin:
      Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.
    - On the eye:
      Not an eye irritant in unused form. Vapors/particles from used product are possibly irritating to eyes.
  - Sensitization: Based on available data, the classification criteria are not met.
  - Carcinogenic categories

<table>
<thead>
<tr>
<th>IARC (International Agency for Research on Cancer):</th>
</tr>
</thead>
<tbody>
<tr>
<td>10294-40-3 barium chromate 1</td>
</tr>
<tr>
<td>7440-02-0 nickel 2B</td>
</tr>
<tr>
<td>592-87-0 lead dithiocyanate 2B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NTP (National Toxicology Program):</th>
</tr>
</thead>
<tbody>
<tr>
<td>10294-40-3 barium chromate K</td>
</tr>
<tr>
<td>7440-02-0 nickel R</td>
</tr>
<tr>
<td>592-87-0 lead dithiocyanate R</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OSHA-Ca (Occupational Safety &amp; Health Administration):</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients are listed.</td>
</tr>
</tbody>
</table>

- Probable route(s) of exposure:
  - Skin contact.
  - Eye contact.
  - Inhalation.
- Acute effects (acute toxicity, irritation and corrosivity): Danger of blast or crush-type injuries.
- Repeated dose toxicity: From product as supplied: None.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
  - Germ cell mutagenicity: Based on available data, the classification criteria are not met.
  - Carcinogenicity: Based on available data, the classification criteria are not met.
  - Reproductive toxicity: Based on available data, the classification criteria are not met.
  - STOT-single exposure: Based on available data, the classification criteria are not met.
  - STOT-repeated exposure: Based on available data, the classification criteria are not met.
  - Aspiration hazard: Based on available data, the classification criteria are not met.

(Cont’d. on page 9)
12 Ecological information

· Toxicity
  · Aquatic toxicity: No relevant information available.
  · Persistence and degradability: No relevant information available.
  · Bioaccumulative potential: May be accumulated in organism
  · Mobility in soil: No relevant information available.
  · Ecotoxicological effects:
  · Remark: Harmful to fish
  · Additional ecological information
  · General notes:
    Avoid release to the environment.
    The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.
    Harmful to aquatic organisms
    Due to available data on elimination/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
  · Other adverse effects: No relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
    Incinerate in accordance with local, state and federal regulations.
    The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· Uncleaned packagings
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number
  · DOT, ADR, IMDG, IATA: UN0303

· UN proper shipping name
  · DOT, ADR, IMDG, IATA: AMMUNITION, SMOKE
**Trade name:** Triple Action Smoke Grenade, White Smoke

(Cont’d. of page 9)

<table>
<thead>
<tr>
<th>· Transport hazard class(es)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
</tr>
<tr>
<td>Class 1.4</td>
</tr>
<tr>
<td>Label 1.4G</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· ADR, IMDG, IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 1.4G</td>
</tr>
<tr>
<td>Label 1.4G</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· Packing group</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT II</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product contains environmentally hazardous substances: potassium chlorate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· Marine pollutant:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· Special precautions for user</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· EMS Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-B-S-X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· Transport/Additional information:</th>
</tr>
</thead>
<tbody>
<tr>
<td>IATA</td>
</tr>
</tbody>
</table>

Cargo Aircraft Only.

---

**15 Regulatory information**

<table>
<thead>
<tr>
<th>· Safety, health and environmental regulations/legislation specific for the substance or mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>· United States (USA)</td>
</tr>
<tr>
<td>· SARA</td>
</tr>
</tbody>
</table>

**Section 302 (extremely hazardous substances):**

None of the ingredients are listed.
Trade name: Triple Action Smoke Grenade, White Smoke

- **Section 304 (emergency release notification):**
  None of the ingredients are listed.

- **Section 355 (extremely hazardous substances):**
  None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**
  7757-79-1 potassium nitrate

- **TSCA (Toxic Substances Control Act)**
  All ingredients are listed.

- **Proposition 65 (California)**
  - **Chemicals known to cause cancer:**
    - 10294-40-3 barium chromate
    - 7440-02-0 nickel
    - 592-87-0 lead dithiocyanate
  - **Chemicals known to cause reproductive toxicity for females:**
    - 10294-40-3 barium chromate
  - **Chemicals known to cause reproductive toxicity for males:**
    - 10294-40-3 barium chromate
  - **Chemicals known to cause developmental toxicity:**
    - 10294-40-3 barium chromate

- **Carcinogenic categories**
  - **EPA (Environmental Protection Agency):**
    - 10294-40-3 barium chromate A(inh), D(oral), K/L(inh), CBD(oral)
  - **IARC (International Agency for Research on Cancer):**
    - 10294-40-3 barium chromate 1
    - 7440-02-0 nickel 2B
    - 592-87-0 lead dithiocyanate 2B
  - **NIOSH-Ca (National Institute for Occupational Safety and Health):**
    - 10294-40-3 barium chromate
    - 7440-02-0 nickel

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 06/23/2016 / -

- **Abbreviations and acronyms:**
  - ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent

(Cont'd. on page 12)
Trade name: Triple Action Smoke Grenade, White Smoke

LD50: Lethal dose, 50 percent
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Expl. 1.1: Explosives – Division 1.1
Expl. 1.4: Explosives – Division 1.4
Flam. Sol. 2: Flammable solids – Category 2
Ox. Sol. 1: Oxidizing solids – Category 1
Ox. Sol. 2: Oxidizing solids – Category 2
Acute Tox. 4: Acute toxicity – Category 4

Sources
Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Safety Data Sheets, Individual Manufacturers
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