1 Identification

- Product identifier
  - Trade name: CS Smoke Projectile
  - Product code: MP-10M2-CS

- 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.
  - Acute Tox. 3 H301 Toxic if swallowed.
  - Acute Tox. 3 H311 Toxic in contact with skin.
  - Acute Tox. 2 H330 Fatal if inhaled.
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irrit. 2A H319 Causes serious eye irritation.
  - Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - Skin Sens. 1 H317 May cause an allergic skin reaction.
  - STOT SE 3 H335 May cause respiratory irritation.

- Label elements
  - GHS label elements
    The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms:
    ![Hazard pictograms]
    GHS01 GHS06 GHS07 GHS08

- Signal word: Danger

- Hazard statements:
  - H204 Fire or projection hazard.
  - H301+H311 Toxic if swallowed or in contact with skin.
  - H330 Fatal if inhaled.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

(Cont'd. on page 2)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

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

Trade name: CS Smoke Projectile

| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |

**Precautionary statements:**
- **P210** Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- **P250** Do not subject to grinding/shock/friction.
- **P260** Do not breathe dust.
- **P284** In case of inadequate ventilation wear respiratory protection.
- **P264** Wash thoroughly after handling.
- **P280** Wear protective gloves/protective clothing/eye protection/face protection.
- **P270** Do not eat, drink or smoke when using this product.
- **P271** Use only outdoors or in a well-ventilated area.
- **P272** Contaminated work clothing must not be allowed out of the workplace.
- **P305+P351+P338** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P373** DO NOT fight fire when fire reaches explosives.
- **P370+P380** In case of fire: Evacuate area.
- **P302+P352** IF ON SKIN: Wash with plenty of water.
- **P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- **P342+P311** If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- **P372** Explosion risk in case of fire.
- **P312** Call a POISON CENTER/doctor if you feel unwell.
- **P333+P313** If skin irritation or rash occurs: Get medical advice/attention.
- **P337+P313** If eye irritation persists: Get medical advice/attention.
- **P301+P310** IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- **P330** Rinse mouth.
- **P361+P364** Take off immediately all contaminated clothing and wash it before reuse.
- **P401** Store in accordance with local/regional/national/international regulations.
- **P405** Store locked up.
- **P403** Store in a well-ventilated place.
- **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 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.

(Cont’d. on page 3)
3 Composition/information on ingredients

- Chemical characterization: Mixtures

<table>
<thead>
<tr>
<th>Components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2698-41-1 [(2-chlorophenyl)methylene]malononitrile</td>
</tr>
<tr>
<td>☐ Acute Tox. 3, H301; Acute Tox. 2, H330</td>
</tr>
<tr>
<td>☐ Resp. Sens. 1, H334</td>
</tr>
<tr>
<td>☐ Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</td>
</tr>
<tr>
<td>1309-48-4 magnesium oxide</td>
</tr>
<tr>
<td>546-93-0 Magnesium carbonate</td>
</tr>
<tr>
<td>7778-74-7 potassium perchlorate</td>
</tr>
<tr>
<td>☐ Ox. Sol. 1, H271</td>
</tr>
<tr>
<td>☐ Acute Tox. 4, H302</td>
</tr>
<tr>
<td>10294-40-3 barium chromate</td>
</tr>
<tr>
<td>☐ Acute Tox. 4, H302; Acute Tox. 4, H332</td>
</tr>
<tr>
<td>7429-90-5 aluminium powder (pyrophoric)</td>
</tr>
<tr>
<td>☐ Pyr. Sol. 1, H250; Water-react. 2, H261</td>
</tr>
<tr>
<td>7440-02-0 nickel</td>
</tr>
<tr>
<td>☐ Carc. 2; H351; STOT RE 1, H372</td>
</tr>
<tr>
<td>☐ Skin Sens. 1, H317</td>
</tr>
<tr>
<td>7440-67-7 zirconium powder (pyrophoric)</td>
</tr>
<tr>
<td>☐ Pyr. Sol. 1, H250; Water-react. 1, H260</td>
</tr>
</tbody>
</table>

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

Notable Trace Components (< 0.1% w/w)

| 15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide/lead stibenate |
| ☐ Unst. Expl. H200 |
| ☐ Repr. 1A, H360; STOT RE 2, H373 |
| ☐ Acute Tox. 4, H302; Acute Tox. 4, H332 |

4 First-aid measures

- Description of first aid measures
  - General information:
    Information is only applicable to product contents, and not to product as normally supplied. This information is applicable to damaged, leaking, or spilled product as contact with contents is possible under these conditions.
  - After inhalation:
    Remove victim to fresh air.
    Seek immediate medical advice.
    Provide oxygen treatment if affected person has difficulty breathing.
    In case of irregular breathing or respiratory arrest provide artificial respiration.
Trade name: CS Smoke Projectile

- **After skin contact:**
  Immediately remove any clothing soiled by the product.
  Brush off loose particles from skin.
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, 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:**
  Rinse out mouth and then drink plenty of water.
  Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:**
  Asthma attacks
  Blast injury if mishandled.
  Allergic reactions
  May cause respiratory irritation.
  Breathing difficulty
  Coughing
  Irritant to eyes.
  Irritant to skin and mucous membranes.
- **Danger:**
  Danger of blast or crush-type injuries.
  Harmful in contact with skin.
  Danger of impaired breathing.
- **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.
  Contains [(2-chlorophenyl)methylene]malononitrile. May produce an allergic reaction.
  Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
  In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.
  Treat skin and mucous membrane with antihistamine and corticoid preparations.
  If necessary oxygen respiration treatment.
  Medical supervision for at least 48 hours.

### 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**
  Fire or projection hazard.
  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.
Trade name: CS Smoke Projectile

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.
Evacuate area and fight fire from from the upwind side.
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:
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Remove persons from danger area.
Ensure adequate ventilation.
Protect from heat.
Isolate area and prevent access.

Environmental precautions:
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up:
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Clean the affected area carefully; suitable cleaners are:
Warm water and cleansing agent

Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

Handling

Precautions for safe handling:
Use only outdoors or in a well-ventilated area.
Handle with care. Avoid jolting, friction and impact.
Avoid breathing dust.

Information about protection against explosions and fires:
Protect from heat.
Keep respiratory protective device available.
Emergency cooling must be available in case of nearby fire.

(Cont'd. on page 6)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

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

Trade name: CS Smoke Projectile

- 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 dry conditions.
- 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: |
|-----------------------|------------------|
| 2698-41-1 [(2-chlorophenyl)methylene]malononitrile |
| PEL (USA) | Long-term value: 0.4 mg/m³, 0.05 ppm |
| REL (USA) | Ceiling limit value: 0.4 mg/m³, 0.05 ppm |
| | Skin |
| TLV (USA) | Ceiling limit value: 0.39 mg/m³, 0.05 ppm |
| | Skin |
| EL (Canada) | Ceiling limit value: 0.05 ppm |
| | Skin |
| EV (Canada) | Ceiling limit value: 0.4 mg/m³, 0.05 ppm |
| | Skin |
| LMPE (Mexico) | Ceiling limit value: 0.05 ppm |
| | A4, PIEL |

<table>
<thead>
<tr>
<th>1309-48-4 magnesium oxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
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<td></td>
</tr>
<tr>
<td>EL (Canada)</td>
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<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td>EV (Canada)</td>
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<tr>
<td></td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>546-93-0 Magnesium carbonate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>REL (USA)</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

(Cont'd. on page 7)
### 10294-40-3 barium chromate

<table>
<thead>
<tr>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 0.005 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ceiling limit value: 0.1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>*as Cr(VI) **as CrO₃; see 29 CFR 1910.1026</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Long-term value: 0.0002 mg/m³</td>
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<tr>
<td></td>
<td>as Cr; See Pocket Guide Apps. A and C</td>
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<td>TLV (USA)</td>
<td>Long-term value: 0.01 mg/m³</td>
</tr>
<tr>
<td></td>
<td>as Cr</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 0.01 mg/m³</td>
</tr>
<tr>
<td></td>
<td>as Cr; ACGIH A1, IARC 1</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Long-term value: 0.01 mg/m³</td>
</tr>
<tr>
<td></td>
<td>A1; como Cr</td>
</tr>
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</table>

### 7429-90-5 aluminium powder (pyrophoric)

<table>
<thead>
<tr>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<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>as Al*Total dust**Respirable/pyro powd./welding f.</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 1* mg/m³</td>
</tr>
<tr>
<td></td>
<td>as Al; *as respirable fraction</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 1.0 mg/m³</td>
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<tr>
<td></td>
<td>respirable, as Al</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>aluminium-containing (as aluminium)</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Long-term value: 1* mg/m³</td>
</tr>
<tr>
<td></td>
<td>A4, *fracción respirable</td>
</tr>
</tbody>
</table>

### 7440-02-0 nickel

<table>
<thead>
<tr>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 1 mg/m³</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Long-term value: 0.015 mg/m³</td>
</tr>
<tr>
<td></td>
<td>as Ni; See Pocket Guide App. A</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 1.5* mg/m³</td>
</tr>
<tr>
<td></td>
<td>elemental, *inhalable fraction</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 0.05 mg/m³</td>
</tr>
<tr>
<td></td>
<td>ACGIH A1, IARC 2B</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Inhalable fraction</td>
</tr>
</tbody>
</table>
Trade name: CS Smoke Projectile

<table>
<thead>
<tr>
<th>LMPE (Mexico)</th>
<th>Long-term value: 1.5* mg/m³ as Zr *elemental:A5, fracción inhalable</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-67-7 zirconium powder (pyrophoric)</td>
<td>Long-term value: 5 mg/m³ as Zr</td>
</tr>
<tr>
<td>PEL (USA)</td>
<td>Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as zirconium</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ A4; como Zr</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)
- 10 µg/L
- Medium: urine
- Time: increase during shift
- Parameter: Total chromium (fume)

Exposure controls
- Engineering measures: Provide adequate ventilation.
- Personal protective equipment:
  - General protective and hygienic measures:
    - The usual precautionary measures for handling chemicals should be followed.
    - Immediately remove all soiled and contaminated clothing.
    - Do not inhale dust / smoke / mist.
    - Avoid contact with the eyes and skin.
    - Keep away from foodstuffs, beverages and feed.
    - Wash hands before breaks and at the end of work.
- Engineering controls: Provide adequate ventilation.
Trade name: CS Smoke Projectile

- Breathing equipment:
  
  Respiratory protection required.
  
  Wear positive pressure NIOSH or European EN149 vapor respirators when deploying product in large quantities.

- Protection of hands:
  
  Protective gloves
  
  Wear gloves when handling deployed rounds.
  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: Sealed metal cylinder
  
  Color: According to product specification
  
  Odor: Odorless
  
  Odor threshold: Not determined.

  pH-value: Not applicable.

  Melting point/Melting range: Not determined.

  Boiling point/Boiling range: Not determined.

  Flash point: Not applicable.

  Flammability (solid, gaseous): Fire or projection hazard.

  Auto-ignition temperature: Not determined.

  Decomposition temperature: Not determined.

  Danger of explosion: Heating may cause an explosion.

  Explosion limits
  
  Lower: Not determined.

(Cont’d. on page 10)
Trade name: CS Smoke Projectile

(Cont'd. of page 9)

<table>
<thead>
<tr>
<th>Upper:</th>
<th>Not determined.</th>
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</thead>
<tbody>
<tr>
<td>· Vapor pressure:</td>
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</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

· Reactivity: No relevant information available.
· Chemical stability:
· Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
· Possibility of hazardous reactions:
  Fire or projection hazard.
  Toxic fumes may be released if heated above the decomposition point.
  Contact with acids releases toxic gases.
  Acts as an oxidizing agent on organic materials such as wood, paper and fats.
  Reacts with strong alkali.
· Conditions to avoid:
  Excessive heat.
  Sources of ignition, open flame, incompatible materials.
· Incompatible materials: Oxidizers, strong bases, strong acids
· Hazardous decomposition products:
  Carbon monoxide and carbon dioxide
  Nitrogen oxides
  Sulfur oxides (SOx)
  Chlorine compounds

(Cont'd. on page 11)
11 Toxicological information

· Information on toxicological effects
  · Acute toxicity:
    · LD/LC50 values that are relevant for classification:
      - 2698-41-1 [(2-chlorophenyl)methylene]malononitrile
        - Oral LD50 178 mg/kg (rat)
      - 3811-04-9 potassium chlorate
        - Oral LD50 1870 mg/kg (rat)
  · Primary irritant effect:
    Effects based on exposure to dusts/mists/spray/vapours released during deployment. Unused product does not possess these effects.
    On the skin: Irritant to skin and mucous membranes.
    On the eye: Irritating effect.
  · Sensitization:
    Sensitization possible through inhalation.
    Sensitization possible through skin contact.

· Carcinogenic categories
  · IARC (International Agency for Research on Cancer):
    - 15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide/ lead stypnate 2B
  · NTP (National Toxicology Program):
    - 15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide/ lead stypnate R
  · OSHA-Ca (Occupational Safety & Health Administration):
    None of the ingredients are listed.

· Probable route(s) of exposure:
  Inhalation.
  Skin contact.
  Eye contact.

· Acute effects (acute toxicity, irritation and corrosivity):
  Irritating to eyes, respiratory system and skin.
  Fatal if swallowed or in contact with skin.

· Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.

· 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: May cause respiratory irritation.

· 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.
12 Ecological information

- Toxicity
  - Aquatic toxicity
    The product contains materials that are harmful to the environment.

<table>
<thead>
<tr>
<th>2698-41-1 [(2-chlorophenyl)methylene]malononitrile</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50: 0.2-0.3 mg/kg (Oncorhynchus mykiss)</td>
</tr>
</tbody>
</table>

- 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:
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
    The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.
    Harmful to aquatic organisms
    Due to available data on eliminability/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: UN0301

- UN proper shipping name
  - DOT, ADR, IMDG, IATA: AMMUNITION, TEAR-PRODUCING
Trade name: CS Smoke Projectile

<table>
<thead>
<tr>
<th>Transport hazard class(es)</th>
<th>DOT</th>
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<tbody>
<tr>
<td>Class: 1.4G</td>
<td></td>
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<tr>
<td>Label: 1.4G, 6.1, 8</td>
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<tr>
<td>Label: 1.4G (6.1, 8)</td>
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<th>DOT</th>
<th>II</th>
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<table>
<thead>
<tr>
<th>Environmental hazards</th>
<th>Product contains environmentally hazardous substances: [(2-chlorophenyl)methylene]malononitrile, potassium chlorate</th>
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</thead>
<tbody>
<tr>
<td>Marine pollutant:</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special precautions for user</th>
<th>Not applicable.</th>
</tr>
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<tbody>
<tr>
<td>EMS Number:</td>
<td>F-B,S-Z</td>
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</tbody>
</table>

| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
Trade name: CS Smoke Projectile

Transport/Additional information:

IATA

![Danger Symbol]

Cargo Aircraft Only.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - United States (USA)
  - SARA
    - Section 302 (extremely hazardous substances):
      None of the ingredients are listed.
    - 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:
        15245-44-0 | lead 2,4,6-trinitro-m-phenylene dioxide/ lead sthphate
      - Chemicals known to cause reproductive toxicity for females:
        None of the ingredients are listed.
      - Chemicals known to cause reproductive toxicity for males:
        None of the ingredients are listed.
      - Chemicals known to cause developmental toxicity:
        15245-44-0 | lead 2,4,6-trinitro-m-phenylene dioxide/ lead sthphate
    - Carcinogenic categories
      - EPA (Environmental Protection Agency):
        None of the ingredients are listed.
      - IARC (International Agency for Research on Cancer):
        15245-44-0 | lead 2,4,6-trinitro-m-phenylene dioxide/ lead sthphate

(Cont'd. on page 13)
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
  - 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
  - LDL: Lowest Lethal Dose Observed
  - Expl. 1.4: Explosives – Division 1.4
  - Pyr. Sol. 1: Pyrophoric solids – Category 1
  - Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1
  - Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2
  - Ox. Sol. 1: Oxidizing solids – Category 1
  - Acute Tox. 3: Acute toxicity – Category 3
  - Acute Tox. 4: Acute toxicity – Category 4
  - Acute Tox. 2: Acute toxicity – Category 2
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  - Resp. Sens. 1: Respiratory sensitisation – Category 1
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Carc. 2: Carcinogenicity – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

- **Sources:**
  - Website, European Chemicals Agency (echa.europa.eu)
  - Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home/)
  - Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
  - Safety Data Sheets, Individual Manufacturers
  - SDS Prepared by: ChemTel Inc.
    1305 North Florida Avenue
    Tampa, Florida USA 33602-2902
    Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
  - Website: www.chemtelinc.com