**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**

**Product Identifier**

**Product Name:** i-kon™ Detonator, i-kon™ II Detonator, i-kon™ III Detonator, i-kon™ Plugin Detonator, eDev II™ Detonator, Oseis™ Electronic Detonators, UNI Tronic™ 600 Detonator 1.1B classification

**Product Code:** 4005

**Intended Use of the Product**

All detonator types are used as initiators for detonator sensitive explosives. For professional use only.

**Name, Address, and Telephone of the Responsible Party**

Canada:
Orica Canada Inc.
301 Rue Hotel-de-Ville
Brownsburg-Chatham, QC
J8G 3B5
For SDS Requests:
1-855-26-ORICA
sds.ca@orica.com
www.oricaminingservices.com

USA:
Orica USA Inc.
33101 E. Quincy Avenue
Watkins, CO 80137-9406
For SDS Requests: 1-855-26-ORICA (1-855-266-7422)
sds.na@orica.com
www.oricaminingservices.com

**Emergency Telephone Number**

**Emergency number**

Canada: 1-877-561-3636 (Orica Transportation Emergency Response)
USA: 1-800-424-9300 (CHEMTREC)

FOR CHEMICAL EMERGENCIES (24 HOUR) INVOLVING TRANSPORTATION, SPILL, LEAK, RELEASE, FIRE OR ACCIDENTS: IN CANADA CALL: THE ORICA TRANSPORTATION EMERGENCY RESPONSE SYSTEM AT 1-877-561-3636. IN THE U.S. CALL: CHEMTREC 1-800-424-9300. IN THE U.S.: FOR LOST, STOLEN, OR MISPLACED EXPLOSIVES CALL: BATF 1-800-800-3855. FORM ATF F 5400.5 MUST BE COMPLETED AND LOCAL AUTHORITIES (STATE/MUNICIPAL POLICE, ETC.) MUST BE ADVISED.

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification of the Substance or Mixture**

**Classification (GHS-US)**

Expl. 1.1 H201
Flam. Sol. 1 H228
Repr. 1A H360
STOT RE 2 H373

**Label Elements**

**GHS-US Labeling**

**Hazard Pictograms (GHS-US)**

![GHS01](image1.png) ![GHS02](image2.png) ![GHS08](image3.png)

**Signal Word (GHS-US)**: Danger

**Hazard Statements (GHS-US)**

H201 - Explosive; mass explosion hazard
H228 - Flammable solid
H360 - May damage fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
i-kon™ Detonator, i-kon™ II Detonator, i-kon™ III Detonator, i-kon™ Plugin Detonator, eDev II™ Detonator, Oseis™ Electronic Detonators, UNI Tronic™ 600 Detonator 1.1B classification

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Precautionary Statements (GHS-US):

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, open flames, sparks - No smoking.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical, lighting, ventilating equipment.
P250 - Do not subject to friction, grinding, shock.
P260 - Do not breathe dust, fume.
P280 - Wear eye protection, protective clothing, protective gloves.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P314 - Get medical advice and attention if you feel unwell.
P370+P378 - In case of fire: DO NOT ATTEMPT TO FIGHT FIRE.
P370+P380 - In case of fire: Evacuate area.
P372 - Explosion risk in case of fire.
P373 - DO NOT fight fire when fire reaches explosives.
P401 - Store as defined in the Explosives Act of Canada and the provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR part 555.
P405 - Store locked up.
P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Other Hazards: Exposure to lead may cause lead poisoning, which is toxic to many organs and tissues including the heart, bones, intestines, kidneys, and reproductive and nervous systems. Symptoms of lead poisoning include abdominal pain, confusion, headache, anemia, irritability, and in severe cases seizures, coma, and death.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentaerythrite tetranitrate</td>
<td>(CAS No) 78-11-5</td>
<td>1 - 5</td>
<td>Unst. Expl, H200</td>
</tr>
<tr>
<td>Lead azide</td>
<td>(CAS No) 13424-46-9</td>
<td>0.1 - 1</td>
<td>Unst. Expl, H200, Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Inhalation:dust,mist), H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Repr. 1A, H360</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2, H373</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Keep at rest and in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head positioned to avoid breathing in of vomit, rinse mouth and have victim drink plenty of water. Never give anything by mouth to an unconscious person.
i-kon™ Detonator, i-kon™ II Detonator, i-kon™ III Detonator, i-kon™ Plugin Detonator, eDev II™ Detonator, Oseis™ Electronic Detonators, UNI Tronic™ 600 Detonator 1.1B classification

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**Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

**Inhalation:** May cause irritation or asthma-like symptoms. May be harmful if inhaled.

**Skin Contact:** May cause mild skin irritation. May be harmful in contact with skin.

**Eye Contact:** May cause minor eye irritation.

**Ingestion:** May be harmful if swallowed.

**Chronic Symptoms:** May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** DO NOT FIGHT FIRES INVOLVING EXPLOSIVES. Water may be applied through fixed extinguishing system (sprinklers) as long as people need not be present for the system to operate.

**Unsuitable Extinguishing Media:** DO NOT FIGHT FIRES INVOLVING EXPLOSIVES. Attempts to smother a fire involving this product will be ineffective as it is its own oxygen source. Smothering this product could lead to decomposition and explosion. This product is more sensitive to detonation if contaminated with organic or oxidizable material or if heated while confined. Unless the mass of product on fire is flooded with water, re-ignition is possible.

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not itself combustible but assists fire in burning materials (oxidizing). Rate of burning: will accelerate burning. After fire has started, this product will continue to burn in the absence of air.

**Explosion Hazard:** This product is an explosive with mass detonation hazard.

**Reactivity:** Unstable explosives

**Advice for Firefighters**

**Precautionary Measures Fire:** This product is an explosive with mass detonation hazard. DO NOT FIGHT FIRES INVOLVING EXPLOSIVE MATERIALS.

**Firefighting Instructions:** DO NOT ATTEMPT TO FIGHT FIRE. Immediately evacuate all personnel from the area to a safe distance. Guard against re-entry. Thermal decomposition can lead to release of irritating gases and vapors.

**Protection During Firefighting:** When controlling fire before involvement of explosives, fire-fighters should wear positive pressure self-containing breathing apparatus (SCBA) and full turnout gear.

**Hazardous Combustion Products:** Carbon oxides (CO, CO₂). Metal oxides. Nitrogen oxides.

**Other information:** Refer to Section 9 for flammability properties.

**Reference to Other Sections**

Refer to section 9 for flammability properties.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe dust or fumes. Keep away from heat, sparks, open flames, hot surfaces – No smoking. Eliminate every possible source of ignition. Evacuate danger area.

**For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate danger area

**For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

**Environmental Precautions**

Prevent entry to sewers and public waters. Hazardous waste due to potential risk of explosion.
Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container.

Methods for Cleaning Up: Use only non-sparking tools. Be careful to avoid shock, friction, and contact with grit. Collect product for recovery or disposal. For release to land, contain discharge by constructing dykes or applying inert absorbent; for release to water, utilize damming and/or water diversion to minimize the spread of contamination. Collect contaminated soil and water, and absorbent for proper disposal. Notify applicable government authority if release is reportable or could adversely affect the environment.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: This product is an explosive and should only be used under the supervision of trained and licensed personnel. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities


Storage Conditions: Store under moderate temperatures recommended by a technical services representative. Store under dry conditions in a well ventilated magazine that has been approved for either detonator storage or explosive storage. Do NOT store explosives in a detonator magazine or detonators in an explosive magazine. Keep away from heat, spark and flames. Keep containers closed. Explosives should be kept well away from initiating explosives; protected from physical damage; separated from oxidizing materials, combustibles, and sources of heat. Isolate from incompatibles. Ideal storage temperature: 10-27°C (50-80°F).

Storage Temperature: It is recommended that detonators not be stored or used at temperatures exceeding 70°C (158°F) without approved procedures to address the elevated temperatures.

Special Rules on Packaging: Keep only in the original container.

Specific End Use(s)

All i-kon detonator types are used as initiators for detonator sensitive explosives. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Proper grounding procedures to avoid static electricity should be followed. Product to be handled in a closed system and under strictly controlled conditions. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas.


Materials for Protective Clothing: Wear fire/flame resistant/retardant clothing.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing. Wear long sleeves.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Evaporation Rate (butylacetate=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Plastic components melt between 100 - 120°C. PETN melts at 140°C (284°F)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>70°C (PETN)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Vapor Density at 20 °C</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not available</td>
</tr>
<tr>
<td>Log Kow</td>
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</tr>
<tr>
<td>Viscosity, Kinematic</td>
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</tr>
<tr>
<td>Viscosity, Dynamic</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Mechanical Impact</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Static Discharge</td>
<td>Not available</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Unstable explosives.
Chemical Stability: Extreme risk of explosion by shock, friction, fire or other sources of ignition.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials: Strong oxidizing and reducing agents.
Hazardous Decomposition Products: Carbon oxides (CO, CO₂), hydrocarbons, nitrogen oxides. At temperatures above 70°C, decomposition may be explosive, especially if confined.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>LD50 and LC50 Data</td>
<td>Not available</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious Eye Damage/Irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or Skin Sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
i-kon™ Detonator, i-kon™ II Detonator, i-kon™ III Detonator, i-kon™ Plugin Detonator, eDev II™ Detonator, Oseis™ Electronic Detonators, UNI Tronic™ 600 Detonator 1.1B classification

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Teratogenicity: Not available
Carcinogenicity: May cause cancer.
Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.
Reproductive Toxicity: May damage fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: May cause irritation or asthma-like symptoms. May be harmful if inhaled.
Symptoms/Injuries After Skin Contact: May cause mild skin irritation. May be harmful in contact with skin.
Symptoms/Injuries After Eye Contact: May cause minor eye irritation.
Symptoms/Injuries After Ingestion: May be harmful if swallowed.
Chronic Symptoms: May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.

Information on Toxicological Effects - Ingredient(s)
LD50 and LC50 Data

<table>
<thead>
<tr>
<th>LD50 and LC50 Data</th>
<th>National Toxicity Program (NTP) Status</th>
<th>Evidence of carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentaerythrite tetranitrate (78-11-5)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Not available
Persistence and Degradability Not available
Bioaccumulative Potential Not available
Mobility in Soil Not available
Other Adverse Effects
Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Destroy and dispose of in accordance with applicable local, state, provincial, territorial, federal and international regulations. Comply with regulations as defined in the Explosives Act of Canada and the provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR part 555.


SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG

UN Number
UN-No.(DOT): 0030

UN Proper Shipping Name
DOT Proper Shipping Name: Detonators, electric
Hazard Labels (DOT): 1.1B - Explosive

Packing Group (DOT): II - Medium Danger
Additional Information
Emergency Response Guide (ERG) Number: 114

SECTION 15: REGULATORY INFORMATION

US Federal Regulations
i-kon™ Detonator, i-kon™ II Detonator, i-kon™ III Detonator, i-kon™ Plugin Detonator, eDev II™ Detonator, Oseis™ Electronic Detonators, UNI Tronic™ 600 Detonator 1.1B classification

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### SARA Section 311/312 Hazard Classes

<table>
<thead>
<tr>
<th>Hazard Classes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sudden release of pressure hazard</td>
<td></td>
</tr>
<tr>
<td>Delayed (chronic) health hazard</td>
<td></td>
</tr>
<tr>
<td>Fire hazard</td>
<td></td>
</tr>
</tbody>
</table>

### Pentaerythrite tetranitrate (78-11-5)

- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- EPA TSCA Regulatory Flag: T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

### Lead azide (13424-46-9)

- Listed on the United States TSCA (Toxic Substances Control Act) inventory

### US State Regulations

<table>
<thead>
<tr>
<th>State</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Maine</td>
<td>Chemicals of High Concern</td>
</tr>
<tr>
<td>U.S. - Massachusetts</td>
<td>Right To Know List</td>
</tr>
<tr>
<td>U.S. - Minnesota</td>
<td>Chemicals of High Concern</td>
</tr>
</tbody>
</table>

### Canadian Regulations

- **i-kon™ Detonator, i-kon™ II Detonator, i-kon™ III Detonator, i-kon™ Plugin Detonator, eDev II™ Detonator, Oseis™ Electronic Detonators, UNI Tronic™ 600 Detonator 1.1B classification**

<table>
<thead>
<tr>
<th>WHMIS Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note: Explosives are not regulated under WHMIS. They are subject to the regulations of the Explosives Act of Canada.</td>
<td></td>
</tr>
<tr>
<td>Class D Division 2 Subdivision A</td>
<td>Very toxic material causing other toxic effects</td>
</tr>
<tr>
<td>Class B Division 4</td>
<td>Flammable Solid</td>
</tr>
</tbody>
</table>

- **Pentaerythrite tetranitrate (78-11-5)**

- Listed on the Canadian DSL (Domestic Substances List) inventory.

- **Lead azide (13424-46-9)**

- Listed on the Canadian DSL (Domestic Substances List) inventory.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION

**Indication of Changes**: 06/19/2017

**Other Information**: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

### GHS Full Text Phrases:

- **Acute Tox. 4 (Inhalation:dust,mist)**: Acute toxicity (inhalation:dust,mist) Category 4
- **Acute Tox. 4 (Oral)**: Acute toxicity (oral) Category 4
- **Expl. 1.1**: Explosive Category 1.1
- **Flam. Sol. 1**: Flammable solids Category 1
- **Repr. 1A**: Reproductive toxicity Category 1A
- **STOT RE 2**: Specific target organ toxicity (repeated exposure) Category 2
- **Unst. Expl**: Unstable explosives
- **H200**: Unstable explosives

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<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>H201</strong></td>
<td>Explosive; mass explosion hazard</td>
</tr>
<tr>
<td><strong>H228</strong></td>
<td>Flammable solid</td>
</tr>
<tr>
<td><strong>H302</strong></td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td><strong>H332</strong></td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td><strong>H360</strong></td>
<td>May damage fertility or the unborn child</td>
</tr>
<tr>
<td><strong>H373</strong></td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

**Party Responsible for the Preparation of This Document**
Orica USA
Phone Number: 1-303-268-5000

The information contained herein is provided only as a guide for the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. This Material Safety Data Sheet is not all-inclusive. The circumstances of use and handling may involve additional considerations that have not been addressed by this Data Sheet. No warranty of any kind is provided or implied by this Data Sheet. Orica will not be liable for any damages, losses, injuries or indirect damages that may result from the use of, or reliance on, any information contained herein.

North America GHS US 2012 & WHMIS