1 Identification

· Product identifier
· Trade name: Cordless Inflator
· Product code: 40057

· Recommended use and restriction on use
· Recommended use: Lithium-based battery product.
· Restrictions on use: No relevant information available.

· Details of the supplier of the Safety Data Sheet
· Manufacturer/Supplier:
  ITW Global Tire Repair, Inc.
  125 Venture Drive, Suite 210, San Luis Obispo, CA 93401
  Tel (805) 489-0490
· Emergency telephone number:
  ChemTel Inc.
  (800)255-3924  (North America)
  +1 (813)248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture
  Acute Tox. 3  H301  Toxic if swallowed.
  Skin Corr. 1A H314  Causes severe skin burns and eye damage.
  Eye Dam. 1  H318  Causes serious eye damage.
  Carc. 2  H351  Suspected of causing cancer.
  Repr. 2  H361  Suspected of damaging fertility or the unborn child.
  STOT RE 1  H372  Causes damage to organs through prolonged or repeated exposure.

· Additional information:
  Note: Leaking cells pose health hazards: see Sections 4 and 11. Intentional abuse of cells or batteries increases the risk of harm or damage to the product, to the user, and to surrounding materials and personnel. Do not attempt to open sealed cells or batteries. Do not intentionally short-circuit cells or batteries. Do not expose these products to temperatures exceeding the maximum manufacturers rating. Do not dispose of cells/batteries in landfills. Please follow all manufacturer guidelines in the use, storage, and disposal of these products. Consult manufacturer in cases of questions involving specific product usage.

· Label elements
  · GHS label elements
    The product is classified and labeled according to the Globally Harmonized System (GHS).
  · Hazard pictograms:
    ![GHS05](image1) ![GHS06](image2) ![GHS08](image3)
    GHS05  GHS06  GHS08

· Signal word: Danger
· Hazard statements:
  H301  Toxic if swallowed.
  H314  Causes severe skin burns and eye damage.

(Cont'd. on page 2)
Trade name: Cordless Inflator

H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.

- Precautionary statements:
  P201 Obtain special instructions before use.
  P202 Do not handle until all safety precautions have been read and understood.
  P260 Do not breathe dusts or mists.
  P264 Wash thoroughly after handling.
  P270 Do not eat, drink or smoke when using this product.
  P280 Wear protective gloves/protective clothing/eye protection/face protection.
  P301+P310 If swallowed: Immediately call a poison center/doctor.
  P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
  P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P308+P313 IF exposed or concerned: Get medical advice/attention.
  P314 Get medical advice/attention if you feel unwell.
  P363 Wash contaminated clothing before reuse.
  P405 Store locked up.
  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.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Components:

<table>
<thead>
<tr>
<th>Component Code</th>
<th>Component Name</th>
<th>Identity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>12190-79-3</td>
<td>Lithium cobalt oxide</td>
<td>Carc. 2, H351; Rep. 2, H361</td>
<td>20-40%</td>
</tr>
<tr>
<td>21324-40-3</td>
<td>Lithiumhexafluorophosphate(1-)</td>
<td>Acute Tox. 3, H301; STOT RE 1, H372; Skin Corr. 1A, H314; Eye Dam. 1, H318</td>
<td>20-40%</td>
</tr>
<tr>
<td>7782-42-5</td>
<td>Graphite</td>
<td></td>
<td>20-40%</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>Copper</td>
<td></td>
<td>10-20%</td>
</tr>
<tr>
<td>7429-90-5</td>
<td>Aluminum</td>
<td>≥10-% ≤20%</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.

4 First-aid measures

- Description of first aid measures

- General information:
**Trade name:** Cordless Inflator

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:**
  Supply fresh air; consult doctor in case of complaints.
  Provide oxygen treatment if affected person has difficulty breathing.

- **After skin contact:**
  Immediately remove any clothing soiled by the product.
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.

- **After eye contact:**
  Remove contact lenses if worn, if possible.
  Protect unharmed eye.
  Rinse opened eye for several minutes under running water. Then 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:**
  Headache
  Strong caustic effect on skin and mucous membranes.
  Nausea
  Gastric or intestinal disorders
  Vomiting.
  Diarrhea.

- **Danger:**
  Danger of gastric perforation.
  Causes serious eye damage.
  Toxic if swallowed.
  Causes damage to organs through prolonged or repeated exposure.
  Suspected of causing cancer.

- **Indication of any immediate medical attention and special treatment needed:**
  Medical supervision for at least 48 hours.
  If medical advice is needed, have product container or label at hand.

---

**5 Fire-fighting measures**

- **Extinguishing media**

- **Suitable extinguishing agents:** Graphite powder.
  Copper powder.
  Water in flooding quantities.
  Fire-extinguishing powder
  Sand
  ABC powder

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

- **Special hazards arising from the substance or mixture** No relevant information available.

- **Advice for firefighters**

- **Protective equipment:**
  Wear self-contained respiratory protective device.
  Wear fully protective suit.
6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - If containers are leaking, use respiratory protective device against the effects of fumes/dust/aerosol.
  - Ensure adequate ventilation.
  - Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions**
  - Avoid release to the environment.
- **Methods and material for containment and cleaning up**
  - Absorb liquid components with liquid-binding material.
  - Pick up mechanically.
  - Send for recovery or disposal in suitable receptacles.
- **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:**
    - Keep away from open flames or temperatures exceeding manufacturer ratings. **DO NOT ATTEMPT TO OPEN SEALED CELLS OR BATTERIES – BATTERY CONTENTS MAY PRESENT SERIOUS SAFETY AND HEALTH HAZARDS. SHORT-CIRCUITING THE TERMINALS OF A DEVICE MAY RESULT IN DAMAGE TO DEVICE AND ANY NEARBY OBJECTS OR PERSONNEL.**
    - Protect from heat.
    - Protect against electrostatic charges.
  - Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
  - **Requirements to be met by storerooms and receptacles:**
    - Store in a dry, well-ventilated place.
    - Do not use or store near open flame.
    - Avoid extreme temperatures; battery may rupture and release contents.
    - Do not store and transport with incompatible materials.
    - Store individual batteries or cells only in approved packaging in order to avoid inadvertent short circuits, as this may result in damage to device, nearby objects, personnel, or all of the above.
  - **Information about storage in one common storage facility:**
    - Store away from foodstuffs.
    - Store away from water.
  - **Specific end use(s)**
    - No relevant information available.

8 Exposure controls/personal protection

- **Control parameters** (Cont'd. on page 5)
Trade name: Cordless Inflator

### Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7782-42-5 Graphite</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 15 mppcf* mg/m³</td>
<td>Long-term value: 2.5* mg/m³</td>
<td>Long-term value: 2 mg/m³</td>
<td>Long-term value: 2 mg/m³</td>
<td>Long-term value: 2 mg/m³</td>
<td>Long-term value: 2* mg/m³</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>*impinger samples counted by light field techn.</td>
<td>*respirable dust</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 2* mg/m³</td>
<td></td>
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<td></td>
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<tr>
<td>EL (Canada)</td>
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<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7440-50-8 Copper</strong></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 1* 0.1** mg/m³ as Cu</td>
<td>Long-term value: 1* 0.1** mg/m³ as Cu</td>
<td>Long-term value: 1* 0.2** mg/m³ as Cu</td>
<td>Long-term value: 1* 0.2** mg/m³ as Cu</td>
<td>Long-term value: 0.2* 1** mg/m³ as copper,</td>
<td>Long-term value: 1* mg/m³ as Al; *as respirable fraction</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>*dusts and mists **fume</td>
<td>*dusts and mists **fume</td>
<td>*dusts and mists; **fume; as Cu</td>
<td>*dusts and mists; **fume; as Cu</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 1* 0.2** mg/m³</td>
<td></td>
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</tr>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 1* 0.2** mg/m³</td>
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<td></td>
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</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 0.2* 1** mg/m³ as copper,</td>
<td>Long-term value: 5 mg/m³ as aluminium-containing (as aluminium)</td>
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<td></td>
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</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Long-term value: 0.2* 1** mg/m³ as copper,</td>
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</tbody>
</table>

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<th>EV (Canada)</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>7429-90-5 aluminum</strong></td>
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</tr>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 15*; 5** mg/m³ *Total dust; **Respirable fraction</td>
<td>Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.</td>
<td>Long-term value: 1* mg/m³ as Al; *as respirable fraction</td>
<td>Long-term value: 1.0 mg/m³ respirable, as Al</td>
<td>Long-term value: 5 mg/m³ aluminium-containing (as aluminium)</td>
<td>Long-term value: 1* mg/m³</td>
</tr>
<tr>
<td>REL (USA)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 1* mg/m³ as Al;</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 1.0 mg/m³ respirable, as Al</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 5 mg/m³ aluminium-containing (as aluminium)</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Long-term value: 1* mg/m³ A4,</td>
<td>Long-term value: 1* mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Exposure controls**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

- **Engineering controls:** Provide adequate ventilation.
- **Breathing equipment:**
  Not required under normal conditions of use.
  For spills, respiratory protection may be advisable.
- **Protection of hands:**
  Not required under normal conditions of use.
  Wear protective gloves to handle contents of damaged or leaking units.
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Material: Nitrile
  Thickness: ≥4 mil
  Breakthrough time: 2 hours
- **Eye protection:**
  Not required for normal handling. Wear protective eyewear while handling damaged or leaking product.
- **Body protection:**
  Not required under normal conditions of use.
  Protection may be required for spills.

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

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **Appearance:**
    - Form: Solid
    - 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):** Not determined.
  - **Auto-ignition temperature:** Not determined.
  - **Decomposition temperature:** Not determined.
  - **Danger of explosion:** Product does not present an explosion hazard.
  - **Explosion limits**
    - Lower: Not determined.
    - Upper: Not determined.
  - **Oxidizing properties:** Not determined.
  - **Vapor pressure:** Not determined.
  - **Density**
    - Relative density: Not determined.
Trade name: Cordless Inflator

Vapor density: Not applicable.
Evaporation rate: Not applicable.

- Solubility in / Miscibility with Water: Insoluble.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity
  Dynamic: Not applicable.
  Kinematic: Not applicable.
- Other information No relevant information available.

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.
    Stable at ambient temperature.
    To avoid thermal decomposition, do not overheat.
- Possibility of hazardous reactions
  Hazardous reactions generally occur with contents of leaking batteries only.
  Toxic fumes may be released if heated above the decomposition point.
  Reacts with strong acids and oxidizing agents.
  Reacts with strong alkali.
  Contact with water releases flammable gases.
- Conditions to avoid
  Excessive heat.
  Avoid acids.
  Store away from oxidizing agents.
  Moisture.
- Incompatible materials
  Oxidizers, strong bases, strong acids
  Water
- Hazardous decomposition products
  Carbon monoxide and carbon dioxide
  Toxic metal oxide smoke

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    ATE (Acute Toxicity Estimate)
    Oral \( LD_{50} >200-1,500 \) mg/kg (rat)

21324-40-3 Lithiumhexafluorophosphat(1-)
Trade name: Cordless Inflator

Oral LD50 >50-300 mg/kg (rat)

- Primary irritant effect:
  - On the skin:
    None from normal handling. Symptoms only seen in exposure to leaking articles.
    Strong caustic effect on skin and mucous membranes.
  - On the eye:
    None from normal handling. Symptoms only seen in exposure to leaking articles.
    Strong caustic effect.
  - Sensitization: Based on available data, the classification criteria are not met.

- IARC (International Agency for Research on Cancer):
  12190-79-3 lithium cobalt oxide 2B

- NTP (National Toxicology Program):
  None of the ingredients are listed.

- OSHA-Ca (Occupational Safety & Health Administration):
  None of the ingredients are listed.

- Probable route(s) of exposure:
  Information references exposures to battery contents, and not exposures to whole units. Exposures to whole units are unlikely to produce health hazards.

- Acute effects (acute toxicity, irritation and corrosivity):
  None from normal handling. Symptoms only seen in exposure to leaking articles.
  Toxic if swallowed.
  Causes severe skin burns and eye damage.

- Repeated dose toxicity:
  None from normal handling. Symptoms only seen in exposure to leaking articles.
  Danger of very serious irreversible effects.
  Causes damage to organs through prolonged or repeated exposure.
  Suspected of causing cancer.

- Germ cell mutagenicity: Based on available data, the classification criteria are not met.

- Carcinogenicity:
  None from normal handling. Symptoms only seen in exposure to leaking articles.
  Suspected of causing cancer.

- Reproductive toxicity:
  None from normal handling. Symptoms only seen in exposure to leaking articles.
  Suspected of damaging fertility or the unborn child.

- STOT-single exposure: Based on available data, the classification criteria are not met.

- STOT-repeated exposure:
  None from normal handling. Symptoms only seen in exposure to leaking articles.
  Causes damage to organs through prolonged or repeated exposure.

- Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No relevant information available.
  - Persistence and degradability: No relevant information available.
  - Bioaccumulative potential: No relevant information available.
  - Mobility in soil: No relevant information available.
### 13 Disposal considerations

**Waste treatment methods**
- **Recommendation:** Contact waste processors for recycling information.

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: UN3480 / UN3481

**UN proper shipping name**
- DOT, ADR, IMDG, IATA: LITHIUM ION BATTERIES / LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT / LITHIUM ION BATTERIES PACKED WITH EQUIPMENT

**Transport hazard class(es)**
- DOT, ADR, IMDG, IATA
  - **Class:** 9
  - **Label:** 9A

**Packing group**
- This UN-number is not assigned a packing group.

**Environmental hazards**
- **Marine pollutant:** No

**Special precautions for user**
- **Warning:** Miscellaneous dangerous substances and articles
  - **EMS Number:** F-A,S-I

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
- Not applicable.
• Transport/Additional information: This battery has passed the test requirements according to the UN Manual of Tests and Criteria Part III, Subsection 38.3
  Voltage: 12.4V
  Watt Hour Rating: 31Wh

Lithium Battery Mark

UN3480: Cargo Aircraft Only. Maximum 30% state of charge (SoC).

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

  • Section 313 (Specific toxic chemical listings):
    12190-79-3 lithium cobalt oxide
    7440-50-8 Copper
    7429-90-5 aluminum

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

• Proposition 65 (California)
  • Chemicals known to cause cancer:
    None of the ingredients are listed.

  • Chemicals known to cause developmental toxicity for females:
    None of the ingredients are listed.

  • Chemicals known to cause developmental toxicity for males:
    None of the ingredients are listed.

  • Chemicals known to cause developmental toxicity:
    None of the ingredients are listed.

• EPA (Environmental Protection Agency):
  7440-50-8 Copper

(Cont'd. on page 11)
Trade name: Cordless Inflator

- IARC (International Agency for Research on Cancer):
  12190-79-3 lithium cobalt oxide 2B

- Canadian Domestic Substances List (DSL) (Substances not listed.):
  All ingredients listed on DSL or NDSL.

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.

- 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
  PBT: Persistent, Bio-accumulable, Toxic
  vPvB: very Persistent and very Bioaccumulative
  OSHA: Occupational Safety & Health Administration
  Acute Tox. 3: Acute toxicity – Category 3
  Skin Corr. 1A: Skin corrosion/irritation – Category 1A
  Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  Carc. 2: Carcinogenicity – Category 2
  Repr. 2: Reproductive toxicity – Category 2
  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.do)
  Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
  Safety Data Sheets, Individual Manufacturers

SDS Prepared by:
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Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com