

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations


Printing date: May 29, 2018

Revision: May 29, 2018

## 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 GHS06 GHS08
- **Signal word:** Danger
- **Hazard statements:**  
H301 Toxic if swallowed.  
H314 Causes severe skin burns and eye damage.

(Cont'd. on page 2)

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: May 29, 2018

Revision: May 29, 2018

**Trade name: Cordless Inflator**

(Cont'd. of page 1)

- 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.
- P321 Specific treatment (see on this label).
- 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:**

12190-79-3	lithium cobalt oxide  Carc. 2, H351; Repr. 2, H361	20-40%
21324-40-3	Lithiumhexafluorophosphat(1-)  Acute Tox. 3, H301  STOT RE 1, H372  Skin Corr. 1A, H314; Eye Dam. 1, H318	20-40%
7782-42-5	Graphite	20-40%
7440-50-8	Copper	10-20%
7429-90-5	aluminum	≥10-≤20%

· **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:**

(Cont'd. on page 3)

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: May 29, 2018

Revision: May 29, 2018

**Trade name: Cordless Inflator**

(Cont'd. of page 2)

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.

(Cont'd. on page 4)

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: May 29, 2018

Revision: May 29, 2018

**Trade name: Cordless Inflator**

(Cont'd. of page 3)

- **Additional information:** Cool endangered receptacles with water in flooding quantities.

### 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.
- **Information about protection against explosions and fires:**  
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)

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: May 29, 2018

Revision: May 29, 2018

**Trade name: Cordless Inflator**

(Cont'd. of page 4)

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

**7782-42-5 Graphite**

PEL (USA)	Long-term value: 15 mppcf* mg/m <sup>3</sup> *impinger samples counted by light field techn.
REL (USA)	Long-term value: 2.5* mg/m <sup>3</sup> *respirable dust
TLV (USA)	Long-term value: 2* mg/m <sup>3</sup> all forms except graphite fibers;*resp. fraction
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup> respirable
EV (Canada)	Long-term value: 2 mg/m <sup>3</sup> respirable
LMPE (Mexico)	Long-term value: 2* mg/m <sup>3</sup> *fracción respirable

**7440-50-8 Copper**

PEL (USA)	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
REL (USA)	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV (USA)	Long-term value: 1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu
EL (Canada)	Long-term value: 1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume, as Cu
EV (Canada)	Long-term value: 0.2* 1** mg/m <sup>3</sup> as copper, *fume; **dust and mists
LMPE (Mexico)	Long-term value: 0.2* 1** mg/m <sup>3</sup> *humo (como Cu); **polvo y niebla (como Cu)

**7429-90-5 aluminum**

PEL (USA)	Long-term value: 15*; 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
EL (Canada)	Long-term value: 1.0 mg/m <sup>3</sup> respirable, as Al
EV (Canada)	Long-term value: 5 mg/m <sup>3</sup> aluminium-containing (as aluminium)
LMPE (Mexico)	Long-term value: 1* mg/m <sup>3</sup> A4, *fracción respirable

**· 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.

(Cont'd. on page 6)

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: May 29, 2018

Revision: May 29, 2018

**Trade name: Cordless Inflator**

(Cont'd. of page 5)

- 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.

(Cont'd. on page 7)

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: May 29, 2018

Revision: May 29, 2018

**Trade name: Cordless Inflator**

(Cont'd. of page 6)

<b>Vapor density:</b>	Not applicable.
<b>Evaporation rate:</b>	Not applicable.

· <b>Solubility in / Miscibility with Water:</b>	Insoluble.
--	------------

· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
---	-----------------

· <b>Viscosity</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Other information</b>	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	LD50	>200-1,500 mg/kg (rat)
------	------	------------------------

**21324-40-3 Lithiumhexafluorophosphat(1-)**

(Cont'd. on page 8)

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: May 29, 2018

Revision: May 29, 2018

**Trade name: Cordless Inflator**

(Cont'd. of page 7)

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.

(Cont'd. on page 9)



## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: May 29, 2018

Revision: May 29, 2018

**Trade name: Cordless Inflator**


(Cont'd. of page 8)

- **Additional ecological information**
- **General notes:** Avoid transfer into the environment.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** 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

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>                               | UN3480 / UN3481  |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>                 | LITHIUM ION BATTERIES / LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT / LITHIUM ION BATTERIES PACKED WITH EQUIPMENT           |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>              | <div style="text-align: center;">  </div> |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>   | <p>9</p> <p>9A</p>   |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> </ul>   | This UN-number is not assigned a packing group.  |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards</b></li> <li>· <b>Marine pollutant:</b></li> </ul>               | No   |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>EMS Number:</b></li> </ul>              | <p>Warning: Miscellaneous dangerous substances and articles</p> <p>F-A,S-I</p>   |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul> | Not applicable.  |

(Cont'd. on page 10)

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: May 29, 2018

Revision: May 29, 2018

**Trade name: Cordless Inflator**

(Cont'd. of page 9)

- **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
-----------	--------

D

(Cont'd. on page 11)

## Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: May 29, 2018

Revision: May 29, 2018

**Trade name: Cordless Inflator**

(Cont'd. of page 10)

· **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](http://echa.europa.eu))

Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))

Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

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](http://www.chemtelinc.com)