



# Lithium Ion Battery in Clipper/Shaver/Trimmer; Lithium Ion Battery in Nail Grinder

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Revision Date: 03/22/2023

Version: 2.0

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Lithium Ion Battery in Clipper/Shaver/Trimmer; Lithium Ion Battery in Nail Grinder

### 1.2. Intended Use of the Product

Lithium based battery product

### 1.3. Name, Address, and Telephone of the Responsible Party

Wahl Clipper Corporation

2900 N. Locust Street

Sterling, IL 61081

USA

Phone: (815) 625-6525

### 1.4. Emergency Telephone Number

**Emergency Number** : ChemTel LLC

(800)255-3924 (North America)

+1 (813)248-0585 (International)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### GHS-US/CA Classification

Acute Tox. 4 (Oral) H302

Acute Tox. 2 (Inhalation) H330

Skin Irrit. 2 H315

Eye Dam. 1 H318

Carc. 2 H351

STOT RE 1 H372

Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

### 2.2. Label Elements

#### GHS-US/CA Labeling

##### Hazard Pictograms (GHS-US/CA)

:



GHS05



GHS06



GHS08

##### Signal Word (GHS-US/CA)

: Danger

##### Hazard Statements (GHS-US/CA)

: H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H330 - Fatal if inhaled.

H351 - Suspected of causing cancer (Inhalation).

H372 - Causes damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

##### Precautionary Statements (GHS-US/CA)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

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P280 - Wear protective gloves, protective clothing, and eye protection.  
P284 - [In case of inadequate ventilation] wear respiratory protection.  
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
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.  
P310 - Immediately call a POISON CENTER or doctor.  
P314 - Get medical advice/attention if you feel unwell.  
P320 - Specific treatment is urgent (see section 4 on this SDS).  
P330 - Rinse mouth.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Cobalt lithium manganese nickel oxide	Lithium cobalt manganese nickel oxide	(CAS-No.) 182442-95-1	30 – 45	Acute Tox. 2 (Inhalation), H330 STOT RE 1, H372 Aquatic Chronic 3, H412
Graphite	C.I. Pigment Black 10 / C.I. 77265 / graphite	(CAS-No.) 7782-42-5	15 – 25	Comb. Dust
Copper	C.I. 77400 / C.I. Pigment Metal 2 / Copper, elemental / Copper metal / Copper, metallic	(CAS-No.) 7440-50-8	5 – 10	Comb. Dust
Aluminum	Aluminium / Aluminum, metal / Aluminum, elemental / C.I. 77000 / / Pigment Metal 1 / Aluminum powder	(CAS-No.) 7429-90-5	2 – 8	Comb. Dust
Styrene-butadiene copolymer	Benzene, ethenyl-, polymer with 1,3-butadiene / Butadiene-styrene copolymer / 1,3-Butadiene-styrene copolymer / Butadiene-styrene polymer / 1,3-Butadiene-styrene polymer / Butadiene-styrene resin / Butadiene-styrene rubber / Styrene-1,3-butadiene copolymer / Styrene-butadiene polymer / Styrene-butadiene rubber / Polymer of styrene and 1,3-butadiene / Styrene homopolymer and 1,3-butadiene homopolymer, block copolymer / Polymer of buta-1,3-diene/styrene / Polymer mainly composed of styrene/butadiene	(CAS-No.) 9003-55-8	0.5 – 5	Comb. Dust
Phosphate(1-), hexafluoro-, lithium	Lithium hexafluorophosphate(1-) / Lithium phosphohexafluoride / Phosphate(1-), hexafluoro-, lithium (1:1) / Lithium hexafluorophosphate	(CAS-No.) 21324-40-3	1 – 3	Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT RE 1, H372

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1,1-Difluoroethylene polymer	Ethene, 1,1-difluoro-, homopolymer / Homopolymer, ethene, 1,1-difluoro- / Polyvinylidene fluoride / Polyvinylidene fluoride resin / Poly(vinylidene fluoride) / Poly(1,1-difluoroethene) / Vinylidene fluoride homopolymer / Polymer of 1,1-difluoroethene	(CAS-No.) 24937-79-9	0.1 – 2	Comb. Dust
Carbon black	C.I. 77266 / C.I. Pigment Black 6 / C.I. Pigment Black 7 / Lampblack / Vegetable carbon / Microjet Black CW / Coal soot / Channel black / Bonjet Black CW / D and C Black No. 4 / D and C Black No. 2	(CAS-No.) 1333-86-4	0.5 – 2	Carc. 2, H351 Comb. Dust

Full text of H-statements: see section 16

\*Percentages are listed in weight by weight percentage (w/w%).

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** The following first aid measures apply in case of exposure to the interior battery components, if the battery is damaged and exposure occurs.

**Inhalation:** For exposure to battery contents: First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

**Skin Contact:** For exposure to battery contents: Immediately remove contaminated clothing. Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.

**Eye Contact:** For exposure to battery contents: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Ingestion:** For exposure to battery contents: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Exposure to battery contents may result in the following: Causes skin irritation. Causes serious eye damage. May be fatal if inhaled. Suspected of causing cancer (Inhalation). Harmful if swallowed. Causes damage to organs through prolonged or repeated exposure.

**Inhalation:** Exposure to materials housed in battery: May be fatal if inhaled in significant amounts.

**Skin Contact:** Exposure to materials housed in battery: Causes skin irritation.

**Eye Contact:** Exposure to materials housed in battery: Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** Exposure to materials housed in battery: This material is harmful orally and can cause adverse health effects.

**Chronic Symptoms:** Exposure to materials housed in battery: Causes damage to organs through prolonged or repeated exposure. Carbon black is classified under the IARC as 2B, "possibly carcinogenic to humans" and under ACGIH as A3 "confirmed animal carcinogen with unknown relevance to humans".

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical powder. Foam. Sand/earth. Water spray, fog (flooding amounts).

**Unsuitable Extinguishing Media:** Application of water to product may generate heat and increase fire intensity.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Battery may rupture/explode when exposed to excessive heat or fire, if overcharged, short circuited, punctured, or crushed.

**Reactivity:** Batteries are non-reactive under normal conditions of storage and use. If the internal contents are leaked lithium ion batteries may react with incompatible materials such as water, acids, bases, oxidizers, and reducing agents and form corrosive, irritating, and harmful fumes and by-products. If the battery is damaged, the interaction of water or water vapor and exposed lithium hexafluorophosphate may result in the generation of hydrogen and hydrogen fluoride (HF) gas.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

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**Firefighting Instructions:** Remove containers from fire area if this can be done without risk. Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Hydrogen Fluoride (HF). Lithium oxides. Metal oxides. Phosphorus oxides.

**Other Information:** Batteries may explode in fire. Damaged batteries can result in rapid heating and the release of flammable vapors.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not handle until all safety precautions have been read and understood. Product itself under normal conditions of use is not considered hazardous, for materials housed within product: Do not breathe dust or fumes. Do not get in eyes, on skin, or on clothing.

#### 6.1.1. For Non-Emergency Personnel

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

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

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

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. If battery is not damaged cleanup spills mechanically, and put into approved container for disposal. If battery is damaged and/or leaking: Using shovel or broom, cover battery or spilled substances with dry sand or vermiculite, place in approved container and dispose in accordance with local regulations. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Since this product is a sealed battery, normal handling hazards are minimal unless the battery is damaged or the internal contents are exposed. Do not get in eyes, on skin, or on clothing. Do not breathe dust, vapors, spray from inner battery components. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Batteries should be separated from other materials and stored in a noncombustible, well ventilated, sprinkler-protected structure with sufficient clearance between walls and battery stacks. Do not store batteries in a manner that allows terminals to short circuit. Do not place batteries near heating equipment, nor expose to direct sunlight for long periods. Store in a dry, cool place. Store locked up/in a secure area. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Water.

### 7.3. Specific End Use(s)

Lithium based battery product

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

<b>Graphite (7782-42-5)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	2 mg/m <sup>3</sup> (all forms except graphite fibers-respirable particulate matter)
<b>USA OSHA</b>	OSHA PEL TWA	15 mg/m <sup>3</sup> (synthetic-total dust) 5 mg/m <sup>3</sup> (synthetic-respirable fraction)
<b>USA OSHA</b>	OSHA PEL TWA	15 mppcf (natural) (See 29 CFR 1910.1000 TABLE Z-3)
<b>USA NIOSH</b>	NIOSH REL TWA	2.5 mg/m <sup>3</sup> (natural-respirable dust)
<b>USA IDLH</b>	IDLH	1250 mg/m <sup>3</sup> (Graphite (natural))
<b>Alberta</b>	OEL TWA	2 mg/m <sup>3</sup> (all forms except Graphite fibres-respirable)
<b>British Columbia</b>	OEL TWA	2 mg/m <sup>3</sup> (all forms except Graphite fibres-respirable)
<b>Manitoba</b>	OEL TWA	2 mg/m <sup>3</sup> (all forms except Graphite fibers-respirable particulate matter)
<b>New Brunswick</b>	OEL TWA	2 mg/m <sup>3</sup> (all forms except graphite fibres)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	2 mg/m <sup>3</sup> (all forms except Graphite fibers-respirable particulate matter)
<b>Nova Scotia</b>	OEL TWA	2 mg/m <sup>3</sup> (all forms except Graphite fibers-respirable particulate matter)
<b>Nunavut</b>	OEL STEL	4 mg/m <sup>3</sup> (natural, all forms, except Graphite fibres-respirable fraction)
<b>Nunavut</b>	OEL TWA	2 mg/m <sup>3</sup> (natural, all forms, except Graphite fibres-respirable fraction)
<b>Northwest Territories</b>	OEL STEL	4 mg/m <sup>3</sup> (natural, all forms, except Graphite fibres-respirable fraction)
<b>Northwest Territories</b>	OEL TWA	2 mg/m <sup>3</sup> (natural, all forms, except Graphite fibres-respirable fraction)
<b>Ontario</b>	OEL TWA	2 mg/m <sup>3</sup> (except Graphite fibres-respirable particulate matter)
<b>Prince Edward Island</b>	OEL TWA	2 mg/m <sup>3</sup> (all forms except Graphite fibers-respirable particulate matter)
<b>Québec</b>	VEMP OEL TWA	2 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica, except Graphite fibres-respirable dust)
<b>Saskatchewan</b>	OEL STEL	4 mg/m <sup>3</sup> (natural, except Graphite fibres-respirable fraction)
<b>Saskatchewan</b>	OEL TWA	2 mg/m <sup>3</sup> (natural, except Graphite fibres-respirable fraction)
<b>Yukon</b>	OEL TWA	20 mppcf 30 mppcf (synthetic) 10 mg/m <sup>3</sup> (synthetic)
<b>Copper (7440-50-8)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	0.2 mg/m <sup>3</sup> (fume)
<b>USA OSHA</b>	OSHA PEL TWA	0.1 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust and mist)
<b>USA NIOSH</b>	NIOSH REL TWA	1 mg/m <sup>3</sup> (dust and mist) 0.1 mg/m <sup>3</sup> (fume)
<b>USA IDLH</b>	IDLH	100 mg/m <sup>3</sup> (dust, fume and mist)
<b>Alberta</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust and mist)
<b>British Columbia</b>	OEL TWA	1 mg/m <sup>3</sup> (dust and mist) 0.2 mg/m <sup>3</sup> (fume)
<b>Manitoba</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume)
<b>New Brunswick</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust and mist)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume)
<b>Nova Scotia</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume)
<b>Nunavut</b>	OEL STEL	3 mg/m <sup>3</sup> (dust and mist) 0.6 mg/m <sup>3</sup> (fume)

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<b>Nunavut</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust and mist)
<b>Northwest Territories</b>	OEL STEL	3 mg/m <sup>3</sup> (dust and mist) 0.6 mg/m <sup>3</sup> (fume)
<b>Northwest Territories</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust and mist)
<b>Ontario</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust and mist)
<b>Prince Edward Island</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume)
<b>Québec</b>	VEMP OEL TWA	0.2 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust and mist)
<b>Saskatchewan</b>	OEL STEL	0.6 mg/m <sup>3</sup> (fume) 3 mg/m <sup>3</sup> (dust and mist)
<b>Saskatchewan</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust and mist)
<b>Yukon</b>	OEL STEL	0.2 mg/m <sup>3</sup> (fume) 2 mg/m <sup>3</sup> (dust and mist)
<b>Yukon</b>	OEL TWA	0.2 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust and mist)
<b>Aluminum (7429-90-5)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	1 mg/m <sup>3</sup> (respirable particulate matter)
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA OSHA</b>	OSHA PEL TWA	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
<b>USA NIOSH</b>	NIOSH REL TWA	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
<b>Alberta</b>	OEL TWA	10 mg/m <sup>3</sup> (dust)
<b>British Columbia</b>	OEL TWA	1 mg/m <sup>3</sup> (respirable)
<b>Manitoba</b>	OEL TWA	1 mg/m <sup>3</sup> (respirable particulate matter)
<b>New Brunswick</b>	OEL TWA	10 mg/m <sup>3</sup> (metal dust)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	1 mg/m <sup>3</sup> (respirable particulate matter)
<b>Nova Scotia</b>	OEL TWA	1 mg/m <sup>3</sup> (respirable particulate matter)
<b>Nunavut</b>	OEL STEL	20 mg/m <sup>3</sup> (metal-dust)
<b>Nunavut</b>	OEL TWA	10 mg/m <sup>3</sup> (metal-dust)
<b>Northwest Territories</b>	OEL STEL	20 mg/m <sup>3</sup> (metal-dust)
<b>Northwest Territories</b>	OEL TWA	10 mg/m <sup>3</sup> (metal-dust)
<b>Ontario</b>	OEL TWA	1 mg/m <sup>3</sup> (respirable particulate matter)
<b>Prince Edward Island</b>	OEL TWA	1 mg/m <sup>3</sup> (respirable particulate matter)
<b>Québec</b>	VEMP OEL TWA	10 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL STEL	20 mg/m <sup>3</sup> (dust)
<b>Saskatchewan</b>	OEL TWA	10 mg/m <sup>3</sup> (dust)
<b>Carbon black (1333-86-4)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	3 mg/m <sup>3</sup> (inhalable particulate matter)
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA OSHA</b>	OSHA PEL TWA	3.5 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA	3.5 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> (Carbon black in presence of Polycyclic aromatic hydrocarbons)
<b>USA IDLH</b>	IDLH	1750 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	3.5 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA	3 mg/m <sup>3</sup> (inhalable)

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Manitoba	OEL TWA	3 mg/m <sup>3</sup> (inhalable particulate matter)
New Brunswick	OEL TWA	3.5 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL TWA	3 mg/m <sup>3</sup> (inhalable particulate matter)
Nova Scotia	OEL TWA	3 mg/m <sup>3</sup> (inhalable particulate matter)
Nunavut	OEL STEL	7 mg/m <sup>3</sup>
Nunavut	OEL TWA	3.5 mg/m <sup>3</sup>
Northwest Territories	OEL STEL	7 mg/m <sup>3</sup>
Northwest Territories	OEL TWA	3.5 mg/m <sup>3</sup>
Ontario	OEL TWA	3 mg/m <sup>3</sup> (inhalable particulate matter)
Prince Edward Island	OEL TWA	3 mg/m <sup>3</sup> (inhalable particulate matter)
Québec	VEMP OEL TWA	3 mg/m <sup>3</sup> (inhalable dust)
Saskatchewan	OEL STEL	7 mg/m <sup>3</sup>
Saskatchewan	OEL TWA	3.5 mg/m <sup>3</sup>
Yukon	OEL STEL	7 mg/m <sup>3</sup>
Yukon	OEL TWA	3.5 mg/m <sup>3</sup>

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Gas detectors should be used when toxic gases may be released.

**Personal Protective Equipment:** Not required under normal conditions of use. When handling damaged batteries: . Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Corrosion-proof clothing.

**Hand Protection:**

**Eye and Face Protection:**

**Skin and Body Protection:**

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: No data available
Odor	: Odorless
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: 130 °C (266 °F)
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: No data available

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<b>Relative Vapor Density at 20°C</b>	: No data available
<b>Relative Density</b>	: No data available
<b>Specific Gravity</b>	: No data available
<b>Solubility</b>	: Water: Insoluble
<b>Partition Coefficient: N-Octanol/Water</b>	: No data available
<b>Viscosity</b>	: No data available
<b>Voltage</b>	: 3.6 – 10.8 V
<b>Watt Hour Rating</b>	: 3.06 - 12.36 Wh

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

Batteries are non-reactive under normal conditions of storage and use. If the internal contents are leaked lithium ion batteries may react with incompatible materials such as water, acids, bases, oxidizers, and reducing agents and form corrosive, irritating, and harmful fumes and by-products. If the battery is damaged, the interaction of water or water vapor and exposed lithium hexafluorophosphate may result in the generation of hydrogen and hydrogen fluoride (HF) gas.

### 10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid:

Do not heat, expose to fire, disassemble, short circuit, immerse in water, or abuse batteries.

### 10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers. Water.

### 10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Hydrogen Fluoride (HF). Carbon oxides (CO, CO<sub>2</sub>). Lithium oxides. Metal oxides. Phosphorus oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

**Exposure to the internal contents of the battery may result in:**

**Acute Toxicity (Oral):** Harmful if swallowed.

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Fatal if inhaled.

#### LD50 and LC50 Data:

Lithium Ion Battery in Clipper/Shaver/Trimmer; Lithium Ion Battery in Nail Grinder	
ATE US/CA (oral)	> 1666 mg/kg body weight
ATE US/CA (inhalation)	> 0.11 mg/l/4h

**Skin Corrosion/Irritation:** Causes skin irritation.

**Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Suspected of causing cancer (Inhalation).

**Specific Target Organ Toxicity (Repeated Exposure):** Causes damage to organs through prolonged or repeated exposure.

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Exposure to materials housed in battery: May be fatal if inhaled in significant amounts.

**Symptoms/Injuries After Skin Contact:** Exposure to materials housed in battery: Causes skin irritation.

**Symptoms/Injuries After Eye Contact:** Exposure to materials housed in battery: Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** Exposure to materials housed in battery: This material is harmful orally and can cause adverse health effects.

# Lithium Ion Battery in Clipper/Shaver/Trimmer; Lithium Ion Battery in Nail Grinder

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

**Chronic Symptoms:** Exposure to materials housed in battery: Causes damage to organs through prolonged or repeated exposure. Carbon black is classified under the IARC as 2B, “possibly carcinogenic to humans” and under ACGIH as A3 “confirmed animal carcinogen with unknown relevance to humans”.

### 11.2. Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

<b>Graphite (7782-42-5)</b>	
LD50 Oral Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 2000 mg/m <sup>3</sup> (Exposure time: 4 h)
<b>Copper (7440-50-8)</b>	
LC50 Inhalation Rat	> 5.11 mg/l/4h
<b>Aluminum (7429-90-5)</b>	
LC50 Inhalation Rat	> 0.888 mg/l/4h
<b>Carbon black (1333-86-4)</b>	
LD50 Oral Rat	> 8000 mg/kg
LC50 Inhalation Rat	> 4.6 mg/m <sup>3</sup> (Exposure time: 4 h)
<b>Phosphate(1-), hexafluoro-, lithium (21324-40-3)</b>	
LD50 Oral Rat	50 – 300 mg/kg
<b>Carbon black (1333-86-4)</b>	
IARC Group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General:** Harmful to aquatic life with long lasting effects.

<b>Graphite (7782-42-5)</b>	
LC50 Fish	> 100 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
EC50 Crustacea	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
ErC50 Algae	> 100 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
NOEC Chronic Fish	> 100 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
NOEC Chronic Crustacea	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
NOEC Chronic Algae	> 100 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
<b>Carbon black (1333-86-4)</b>	
EC50 Crustacea	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)

### 12.2. Persistence and Degradability

<b>Lithium Ion Battery in Clipper/Shaver/Trimmer; Lithium Ion Battery in Nail Grinder</b>	
Persistence and Degradability	May cause long-term adverse effects in the environment.
<b>Copper (7440-50-8)</b>	
Persistence and Degradability	Not readily biodegradable.

### 12.3. Bioaccumulative Potential

<b>Lithium Ion Battery in Clipper/Shaver/Trimmer; Lithium Ion Battery in Nail Grinder</b>	
Bioaccumulative Potential	Not established.

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Material should be recycled if possible. Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

# Lithium Ion Battery in Clipper/Shaver/Trimmer; Lithium Ion Battery in Nail Grinder

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According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

**Additional Information:** Batteries should be completely discharged prior to disposal and/or the terminals taped or capped to prevent short circuit.

**Ecology - Waste Materials:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways. Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

**Proper Shipping Name** : LITHIUM ION BATTERIES, CONTAINED IN EQUIPMENT  
**Hazard Class** : 9  
**Identification Number** : UN3481  
**Label Codes** : Lithium battery mark  
**ERG Number** : 147



### 14.2. In Accordance with IMDG

**Proper Shipping Name** : LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT  
**Hazard Class** : 9A  
**Identification Number** : UN3481  
**Label Codes** : Lithium battery mark  
**EmS-No. (Fire)** : F-A  
**EmS-No. (Spillage)** : S-I



### 14.3. In Accordance with IATA Dangerous Goods Regulations (DGR), Edition 64

**Proper Shipping Name** : LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT  
**Hazard Class** : 9A  
**Identification Number** : UN3481  
**Label Codes** : Lithium battery mark  
**ERG Code (IATA)** : 12FZ



### 14.4. In Accordance with TDG

**Proper Shipping Name** : LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT  
**Hazard Class** : 9  
**Identification Number** : UN3481  
**Label Codes** : Lithium battery mark



**Additional Information** : This battery has passed the test requirements according to the UN Manual of Tests and Criteria Part III, Subsection 38.3

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>Lithium Ion Battery in Clipper/Shaver/Trimmer; Lithium Ion Battery in Nail Grinder</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Health hazard - Carcinogenicity Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Acute toxicity (any route of exposure) Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation
<b>Graphite (7782-42-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Copper (7440-50-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Aluminum (7429-90-5)</b>	

# Lithium Ion Battery in Clipper/Shaver/Trimmer; Lithium Ion Battery in Nail Grinder

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Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>SARA Section 313 - Emission Reporting</b>	1 % (dust or fume only)
<b>1,1-Difluoroethylene polymer (24937-79-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Cobalt lithium manganese nickel oxide (182442-95-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	PMN - PMN - indicates a commenced PMN substance. S - S - indicates a substance that is identified in a final Significant New Use Rule. 5E - 5E - indicates a substance that is the subject of a TSCA section 5E order.
<b>Carbon black (1333-86-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Styrene-butadiene copolymer (9003-55-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Phosphate(1-), hexafluoro-, lithium (21324-40-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	PMN - PMN - indicates a commenced PMN substance.

### 15.2. US State Regulations

#### California Proposition 65



**WARNING:** This product can expose you to Carbon black, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Carbon black (1333-86-4)	X			

#### Graphite (7782-42-5)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List

#### Copper (7440-50-8)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### Aluminum (7429-90-5)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### Carbon black (1333-86-4)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List

### 15.3. Canadian Regulations

#### Graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List)

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<b>Copper (7440-50-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Aluminum (7429-90-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>1,1-Difluoroethylene polymer (24937-79-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Carbon black (1333-86-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Styrene-butadiene copolymer (9003-55-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Phosphate(1-), hexafluoro-, lithium (21324-40-3)</b>
Listed on the Canadian NDSL (Non-Domestic Substances List)

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 03/22/2023

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

### GHS Full Text Phrases:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H330	Fatal if inhaled
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*