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

Revision: June 14, 2019

VAHL®

#### **1** Identification

#### <sup>•</sup> Product identifier

· Trade name: Lithium Metal Battery in/with Shaver/Trimmer (8510.10)

· Other means of identification: No other identifiers

#### · Recommended use and restriction on use

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

#### <sup>•</sup> Details of the supplier of the Safety Data Sheet

#### Manufacturer/Supplier: Wahl Clipper Corporation 2900 N. Locust Street

Sterling, IL 61081 USA Phone: (815) 625-6525

#### **Emergency telephone number:** ChemTel Inc.

(800)255-3924 (North America) +1 (813)248-0585 (International)

#### 2 Hazard(s) identification

#### <sup>•</sup> Classification of the substance or mixture

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Repr. 1B H360 May damage fertility or the unborn child.

#### 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.

#### <sup>-</sup> Label elements

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms:



#### · Signal word: Danger

· Hazard statements:

H314 Causes severe skin burns and eye damage.

H360 May damage fertility or the unborn child.

#### Precautionary statements:

P201Obtain special instructions before use.P202Do not handle until all safety precautions have been read and understood.

(Cont'd. on page 2)

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

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#### Trade name: Lithium Metal Battery in/with Shaver/Trimmer (8510.10) (Cont'd. of page 1) P260 Do not breathe mist/vapors/spray. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection. 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. Immediately call a poison center/doctor. P310 IF exposed or concerned: Get medical advice/attention. P308+P313 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	8.	
182442-95-1	cobalt lithium manganese nickel oxide	0-45%
	Acute Tox. 2, H330 Carc. 1A, H350; STOT RE 1, H372	
12190-79-3	Lithium cobalt oxide	0-40%
	🗞 Carc. 2, H351; Repr. 2, H361	
7782-42-5	Graphite	<30%
21324-40-3	Lithiumhexafluorophosphat(1-)	<20%
	Acute Tox. 3, H301; Acute Tox. 3, H331	
	STOT RE 1, H372	
	left Skin Corr. 1A, H314; Eye Dam. 1, H318	
7440-50-8	Copper	≤10%
7429-90-5	Aluminum	<10%
7440-02-0	Nickel	≤5%
1333-86-4	Carbon black	<5%
	formation:	

#### 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

#### <sup>•</sup> Description of first aid measures

#### · General information:

Information is only applicable to product contents, and not to product as normally supplied. This information is applicable to damaged, leaking, or spilled product as contact with contents is possible under these conditions.

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Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. After skin contact: Immediately remove any clothing soiled by the product. Immediately wash with water and soap and rinse thoroughly. Seek medical treatment in case of complaints. Seek immediate help for bilstering or open wounds. After eye contact: Remove contact lenses if worn, if possible. 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 Breathing difficulty Coughing Nausea Gastric or intestinal disorders Vomiting. Diarrhea. Caustic effect on skin and mucous membranes. Caustic effect on skin and mucous membranes. May damage fertility or the unborn child. Indication of any immediate medical attention and special treatment needed: Monitor circulation, possible shock treatment. Medical supervision		(Cont'd. of page
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Monitor circulation, possible shock treatment. Medical supervision for at least 48 hours.		
Medical supervision for at least 48 hours.		
·		
5 Fire-fighting measures		
	Fire-fighting measures	

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

During heating or in case of fire poisonous gases are produced.

### Advice for firefighters

#### · Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

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

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· 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.

<sup>•</sup> 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

#### <sup>·</sup> Control parameters

(Cont'd. on page 5)

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

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#### Trade name: Lithium Metal Battery in/with Shaver/Trimmer (8510.10) (Cont'd. of page 4) · Components with limit values that require monitoring at the workplace: 7782-42-5 Graphite Long-term value: 15 mppcf\* mg/m<sup>3</sup> PEL (USA) \*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 Long-term value: 2 mg/m<sup>3</sup> EL (Canada) 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 Long-term value: 0.2\* 1\*\* mg/m<sup>3</sup> EV (Canada) 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 Long-term value: 15\*; 5\*\* mg/m<sup>3</sup> PEL (USA) \*Total dust; \*\* Respirable fraction Long-term value: 10\* 5\*\* mg/m<sup>3</sup> REL (USA) as Al\*Total dust\*\*Respirable/pyro powd./welding f. TLV (USA) Long-term value: 1\* mg/m<sup>3</sup> as AI; \*as respirable fraction Long-term value: 1.0 mg/m<sup>3</sup> EL (Canada) respirable, as Al Long-term value: 5 mg/m<sup>3</sup> EV (Canada) aluminium-containing (as aluminium) Long-term value: 1\* mg/m<sup>3</sup> LMPE (Mexico) A4, \*fracciòn respirable 7440-02-0 Nickel PEL (USA) Long-term value: 1 mg/m<sup>3</sup> Long-term value: 0.015 mg/m<sup>3</sup> REL (USA) as Ni; See Pocket Guide App. A TLV (USA) Long-term value: 1.5\* mg/m<sup>3</sup> (Cont'd. on page 6)

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	(Cont'd of r
	elemental, *inhalable fraction (Cont'd. of p
EL (Canada)	Long-term value: 0.05 mg/m³ ACGIH A1, IARC 2B
EV (Canada)	Long-term value: 1 mg/m³ Inhalable fraction
LMPE (Mexico)	Long-term value: 1.5* mg/m³ *elemental:A5, fracción inhalable
1333-86-4 Carb	on black
PEL (USA)	Long-term value: 3.5 mg/m <sup>3</sup>
REL (USA)	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV (USA)	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction
EL (Canada)	Long-term value: 3 mg/m³ IARC 2B
EV (Canada)	Long-term value: 3.5 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 3* mg/m <sup>3</sup>
Keep away from Immediately ren Wash hands be Avoid contact w	tive and hygienic measures: foodstuffs, beverages and feed. nove all soiled and contaminated clothing. fore breaks and at the end of work. th the eyes and skin.
General protect Keep away from Immediately ren Wash hands be Avoid contact w Engineering co Breathing equi Not required und For spills, respir Protection of h Not required und Wear protective The glove mater Material of glov Butyl rubber, N Natural rubber, N Natural rubber, N Natural rubber, N Eluorocarbon ru Eye protection	Atrols tive and hygienic measures: foodstuffs, beverages and feed. hove all soiled and contaminated clothing. fore breaks and at the end of work. the eyes and skin. ontrols: No relevant information available. pment: der normal conditions of use. atory protection may be advisable. ands: der normal conditions of use. gloves to handle contents of damaged or leaking units. rial has to be impermeable and resistant to the product/ the substance/ the preparatio /es BR NR s bber (Viton)

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Information on basic physical a	and chamical properties	
· Appearance:	and chemical properties	
Form:	Solid	
Color:	According to product specification	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
<ul> <li>Melting point/Melting range:</li> </ul>	Not determined.	
<ul> <li>Boiling point/Boiling range:</li> </ul>	Not determined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Not determined.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
· Oxidizing properties:	Non-oxidizing.	
· Vapor pressure:	Not applicable.	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not applicable.	
Evaporation rate:	Not applicable.	
<ul> <li>Solubility in / Miscibility with</li> </ul>		
Water:	Insoluble.	
· Partition coefficient (n-octanol/wa	ter): 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

(Cont'd. on page 8)

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		(Cont'd. of page
Hazardous r	eactions generally occur with contents of leaking batteries only.	(00
Toxic fumes	may be released if heated above the decomposition point.	
	strong acids and oxidizing agents.	
	strong alkali. water releases flammable gases.	
· Conditions	•	
Excessive h		
Avoid acids.		
	rom oxidizing agents.	
Moisture.	ala matariala	
	ble materials rong bases, strong acids	
Water	Tony bases, strong actus	
	decomposition products	
Under fire co	onditions only:	
	oxide and carbon dioxide	
I oxic metal	oxide smoke	
1 Toxicoloc	jical information	
	n on toxicological effects	
· Acute toxic	ity: Based on available data, the classification criteria are not met.	
<ul> <li>Acute toxic</li> <li>LD/LC50 va</li> </ul>	ity: Based on available data, the classification criteria are not met. Iues that are relevant for classification:	
<ul> <li>Acute toxic</li> <li>LD/LC50 va</li> <li>21324-40-3</li> </ul>	ity: Based on available data, the classification criteria are not met. Iues that are relevant for classification: Lithiumhexafluorophosphat(1-)	
<ul> <li>Acute toxic</li> <li>LD/LC50 va</li> <li>21324-40-3</li> <li>Oral LD50</li> </ul>	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat)	
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect:	
• Acute toxic         • LD/LC50 va         21324-40-3         Oral LD50         • Primary irrit         • On the skin         • On the skin         • Con the skin         • Conthe skin         • Co	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: :	
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles.	
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effect	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes.	
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effec     On the eye:	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes.	
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effec     On the eye:     None from n	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes.	
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effec     On the eye:     None from n     Causes serie	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles.	
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effet     On the eye:     None from n     Causes serie     Sensitizatio	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes.	
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effec     On the eye:     None from n     Causes serie     Sensitizatio     IARC (Intern	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ous eye damage. m: Based on available data, the classification criteria are not met.	
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effec     On the eye:     None from n     Causes serie     Sensitizatio     IARC (Intern	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ous eye damage. on: Based on available data, the classification criteria are not met. hational Agency for Research on Cancer): Lithium cobalt oxide	2
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effec     On the eye:     None from n     Causes serie     Sensitizatio     IARC (Intern     12190-79-3     7440-02-0	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ous eye damage. on: Based on available data, the classification criteria are not met. hational Agency for Research on Cancer): Lithium cobalt oxide	
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effec     On the eye:     None from n     Causes serie     Sensitizatio     IARC (Intern     12190-79-3     7440-02-0     1333-86-4	ity: Based on available data, the classification criteria are not met.         lues that are relevant for classification:         Lithiumhexafluorophosphat(1-)         >50-300 mg/kg (rat)         tant effect:         :         ormal handling. Symptoms only seen in exposure to leaking articles.         ct on skin and mucous membranes.         ormal handling. Symptoms only seen in exposure to leaking articles.         ourmal handling. Symptoms only seen in exposure to leaking articles.         ourmal handling. Symptoms only seen in exposure to leaking articles.         ourmal handling. Symptoms only seen in exposure to leaking articles.         ourmal handling. Symptoms only seen in exposure to leaking articles.         ourmal handling. Symptoms only seen in exposure to leaking articles.         ourmal handling. Symptoms only seen in exposure to leaking articles.         ourmal handling. Symptoms only seen in exposure to leaking articles.         ourmal handling. Symptoms only seen in exposure to leaking articles.         ourse eye damage.         on: Based on available data, the classification criteria are not met.         hational Agency for Research on Cancer):         Lithium cobalt oxide         Nickel         Carbon black	2
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effec     On the eye:     None from n     Causes serie     Sensitizatio     IARC (Intern     12190-79-3     7440-02-0     1333-86-4     182442-95-1	ity: Based on available data, the classification criteria are not met.         lues that are relevant for classification:         Lithiumhexafluorophosphat(1-)         >50-300 mg/kg (rat)         tant effect:         :         ormal handling. Symptoms only seen in exposure to leaking articles.         ct on skin and mucous membranes.         ormal handling. Symptoms only seen in exposure to leaking articles.         ormal handling. Symptoms only seen in exposure to leaking articles.         our al handling. Symptoms only seen in exposure to leaking articles.         our al handling. Symptoms only seen in exposure to leaking articles.         our al handling. Symptoms only seen in exposure to leaking articles.         our al handling. Symptoms only seen in exposure to leaking articles.         our al handling. Symptoms only seen in exposure to leaking articles.         our al handling. Symptoms only seen in exposure to leaking articles.         our al handling. Symptoms only seen in exposure to leaking articles.         our al handling. Symptoms only seen in exposure to leaking articles.         our al handling. Symptoms only seen in exposure to leaking articles.         our al handling. Symptoms only seen in exposure to leaking articles.         our al handling.         Value         Altitude         Nickel         Carbon black         cobalt	2
<ul> <li>Acute toxic</li> <li>LD/LC50 va</li> <li>21324-40-3</li> <li>Oral LD50</li> <li>Primary irrit</li> <li>On the skin None from n Caustic effect</li> <li>On the eye: None from n Causes serie</li> <li>Sensitizatio</li> <li>IARC (Intern 12190-79-3 7440-02-0</li> <li>1333-86-4</li> <li>182442-95-1</li> <li>NTP (Nation</li> </ul>	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ous eye damage. m: Based on available data, the classification criteria are not met. mational Agency for Research on Cancer): Lithium cobalt oxide Nickel Carbon black cobalt lithium manganese nickel oxide mal Toxicology Program):	2 2 1
Acute toxic     LD/LC50 va     21324-40-3     Oral LD50     Primary irrit     On the skin     None from n     Caustic effec     On the eye:     None from n     Causes serie     Sensitizatio     IARC (Intern     12190-79-3     7440-02-0     1333-86-4     182442-95-1     NTP (Nation	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ous eye damage. m: Based on available data, the classification criteria are not met. mational Agency for Research on Cancer): Lithium cobalt oxide Nickel Carbon black cobalt lithium manganese nickel oxide Toxicology Program): cobalt lithium manganese nickel oxide	2 2 1
<ul> <li>Acute toxic</li> <li>LD/LC50 va</li> <li>21324-40-3</li> <li>Oral LD50</li> <li>Primary irrit</li> <li>On the skin</li> <li>None from n</li> <li>Caustic effect</li> <li>On the eye:</li> <li>None from n</li> <li>Causes serie</li> <li>Sensitizatio</li> <li>IARC (Interr</li> <li>12190-79-3</li> <li>7440-02-0</li> <li>1333-86-4</li> <li>182442-95-1</li> <li>NTP (Nation</li> <li>182442-95-1</li> <li>7440-02-0</li> </ul>	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ourmal handling. Symptoms only seen in exposure to leaking articles. ormal handling. Symptoms only seen in exposure to leaking articles. ourmal handling. Symptoms only seen in exposure to leaking articles. ourmal handling. Symptoms only seen in exposure to leaking articles. ourmal handling. Symptoms only seen in exposure to leaking articles. ourmal handling. Symptoms on Cancer): Lithium cobalt oxide Lithium cobalt oxide Nickel Carbon black cobalt lithium manganese nickel oxide Nickel	2 2 1
<ul> <li>Acute toxic</li> <li>LD/LC50 va</li> <li>21324-40-3</li> <li>Oral LD50</li> <li>Primary irrit</li> <li>On the skin</li> <li>None from n</li> <li>Caustic effect</li> <li>On the eye:</li> <li>None from n</li> <li>Causes serie</li> <li>Sensitizatio</li> <li>IARC (Intern</li> <li>12190-79-3</li> <li>7440-02-0</li> <li>1333-86-4</li> <li>182442-95-1</li> <li>NTP (Nation</li> <li>182442-95-1</li> <li>7440-02-0</li> <li>OSHA-Ca (Comparison)</li> </ul>	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ous eye damage. m: Based on available data, the classification criteria are not met. mational Agency for Research on Cancer): Lithium cobalt oxide Nickel Carbon black cobalt lithium manganese nickel oxide mat Toxicology Program): cobalt lithium manganese nickel oxide Nickel Cacupational Safety & Health Administration):	2 2 1
<ul> <li>Acute toxic</li> <li>LD/LC50 va</li> <li>21324-40-3</li> <li>Oral LD50</li> <li>Primary irrit</li> <li>On the skin</li> <li>None from n</li> <li>Caustic effect</li> <li>On the eye:</li> <li>None from n</li> <li>Causes serie</li> <li>Sensitizatio</li> <li>IARC (Intern</li> <li>12190-79-3</li> <li>7440-02-0</li> <li>1333-86-4</li> <li>182442-95-1</li> <li>NTP (Nation</li> <li>182442-95-1</li> <li>7440-02-0</li> <li>OSHA-Ca (Comparison)</li> </ul>	ity: Based on available data, the classification criteria are not met. lues that are relevant for classification: Lithiumhexafluorophosphat(1-) >50-300 mg/kg (rat) tant effect: : ormal handling. Symptoms only seen in exposure to leaking articles. ct on skin and mucous membranes. ormal handling. Symptoms only seen in exposure to leaking articles. ourmal handling. Symptoms only seen in exposure to leaking articles. ormal handling. Symptoms only seen in exposure to leaking articles. ourmal handling. Symptoms only seen in exposure to leaking articles. ourmal handling. Symptoms only seen in exposure to leaking articles. ourmal handling. Symptoms only seen in exposure to leaking articles. ourmal handling. Symptoms on Cancer): Lithium cobalt oxide Lithium cobalt oxide Nickel Carbon black cobalt lithium manganese nickel oxide Nickel	2 2 1

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

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#### Trade name: Lithium Metal Battery in/with Shaver/Trimmer (8510.10)

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Eye contact. Skin contact.

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

None from normal handling. Symptoms only seen in exposure to leaking articles.

- May damage fertility or the unborn child.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

#### **12 Ecological information**

#### <sup>·</sup> 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.
- Additional ecological information
- · General notes: Avoid transfer into the environment.
- · Other adverse effects No relevant information available.

#### 13 Disposal considerations

#### <sup>•</sup> 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.

#### <sup>·</sup> Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

<sup>·</sup> UN-Number	
· DOT, ADR/RID/ADN, IMDG, IATA	UN3091
· UN proper shipping name	
· DOT, ADR/RID/ADN, ĬMDG, IATA	LITHIUM METAL BATTERIES CONTAINED EQUIPMENT / LITHIUM METAL BATTERIE PACKED WITH EQUIPMENT

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	(Cont'd. of page s
DOT, ADR/RID/ADN, IMDG, IATA	
Class	9
Label	9
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 o	f
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	This battery has passed the test requirement according to the UN Manual of Tests and Criteria Pa III, Subsection 38.3 Lithium content: ≤1g
Lithium Battery Mark	
DOT	See 173.185 for exceptions.
	See 173.185 for exceptions. See Special Provision 188 for exceptions.
DOT ADR/RID/ADN IMDG	

15 Regulatory information
<ul> <li>Safety, health and environmental regulations/legislation specific for the substance or mixture</li> <li>United States (USA)</li> <li>SARA</li> </ul>
· Section 302 (extremely hazardous substances):
None of the ingredients are listed.
· Section 355 (extremely hazardous substances):
None of the ingredients are listed.
(Cont'd. on page 11)

### according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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		(Cont'd. of page
	Specific toxic chemical listings):	
	cobalt lithium manganese nickel oxide	
12190-79-3	Lithium cobalt oxide	
7440-50-8		
7429-90-5		
7440-02-0	Nickel	
	Substances Control Act)	
All ingredients	are listed or exempt.	
· Proposition	65 (California)	
· Chemicals k	nown to cause cancer:	
182442-95-1	cobalt lithium manganese nickel oxide	
7440-02-0		
1333-86-4	Carbon black	
	nown to cause developmental toxicity for females:	
None of the ir	igredients are listed.	
	nown to cause developmental toxicity for males:	
None of the ir	gredients are listed.	
	nown to cause developmental toxicity:	
None of the ir	gredients are listed.	
· EPA (Enviro	nmental Protection Agency):	
7440-50-8 C	opper	
IARC (Intern	ational Agency for Research on Cancer):	
182442-95-1	cobalt lithium manganese nickel oxide	1
12190-79-3	Lithium cobalt oxide	2
7440-02-0	Nickel	2
1333-86-4	Carbon black	2
· Canadian Do	mestic Substances List (DSL):	

### **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 Dangerous Goods Regulations 60th Edition CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
 OSHA: Occupational Safety & Health Administration Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 2: Acute toxicity – Category 2

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

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#### Trade name: Lithium Metal Battery in/with Shaver/Trimmer (8510.10) (Cont'd. of page 11) Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Carc. 1A: Carcinogenicity – Category 1A Carc. 2: Carcinogenicity – Category 2 Repr. 1B: Reproductive toxicity - Category 1B 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) 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