

Page 1/9

## Safety Data Sheet according to WHS Regulations

Printing date 03.08.2023

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Revision: 03.08.2023

Produ	ict identifier
Trade	e name: <u>VALO<sup>TM</sup> Cordless 400mAh Rechargeable Battery</u>
<b>Relev</b> RCR	e number: SDS 435-001.01R02, 1007761 ant identified uses of the substance or mixture and uses advised against 23A Rechargeable Lithium Iron Phosphate Battery cation of the substance / the mixture RCR123A Rechargeable Lithium Iron Phosphate Battery
Detai	ls of the supplier of the safety data sheet
Manı	ıfacturer/Supplier:
Ultra	dent Products, Inc.
505 V	V. Ultradent Drive (10200 S)
South	Jordan, UT 84095-3942
USA	
onlin	eordersupport@ultradent.com
Ultra	dent Australia Pty Ltd.
Level	22/2 Market Street
Sydne	y NSW 2000
Austr	alia
Emai	l: info.anz@ultradent.com
Toll I	Free: 1-800-290929
Furth	er information obtainable from: Customer Service
	gency telephone number:
CHE	MTREC (NORTH AMERICA) :(800) 424-9300
	(INTERNATIONAL) : +(703) 527-3887

• *Classification of the substance or mixture The product is not classified, according to the Globally Harmonised System (GHS).* 

- · Label elements
- · GHS label elements Void
- Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void

## 3 Composition and Information on Ingredients

• Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
7440-50-8	Copper Foil	≥10-<30%	
	Aluminum Foil	≥0-<30%	
	🚸 Flam. Sol. 1, H228; Water-react. 2, H261		
		(Contd. on page 2)	

Printing date 03.08.2023

Revision: 03.08.2023

Trade name: VALO<sup>TM</sup> Cordless 400mAh Rechargeable Battery

		(Contd. of page 1)
21324-40-3	Lithium Hexaflurophosphate	<i>≥</i> 0-<10%
	♦ Acute Tox. 3, H301; Acute Tox. 2, H310	
1120-71-4	Propane Sultone (PS)	≥0.01-<10%
	🚸 Carc. 1B, H350; 🚸 Acute Tox. 4, H302; Acute Tox. 4, H312	
· SVHC		
1120-71-4	Propane Sultone (PS)	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- · General information: No special measures required.
- After inhalation:

If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice.

• After skin contact:

If skin contact with contents of an open battery occurs, as quickly as possible remove contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

• After eye contact:

If eye contact with contents of an open battery occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids open. Neutral saline solution may be used as soon as it is available. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.

• After swallowing:

If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.

- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **5 Fire Fighting Measures**

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water

· Special hazards arising from the substance or mixture

In the event that this battery has been ruptured, the electrolyte solution contain within the battery would be flammable. Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.

Sensitivity to Mechanical Impact: This may result in rupture in extreme cases. Sensitivity to Static Discharge: Not Applicable

Fires involving the rechargeable battery are controlled with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended to extinguish the fire.

(Contd. on page 3)

<sup>-</sup> AU

Printing date 03.08.2023

Revision: 03.08.2023

(Contd. of page 2)

#### Trade name: VALO<sup>TM</sup> Cordless 400mAh Rechargeable Battery

• Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unnecessary personnel away. Keep people at a distance and stay on the windward side. • Environmental precautions: Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Collect all contaminated wash water for proper disposal. Do not touch spilled material. Stop the flow of material, if this is without risk. Wipe up and discard in a suitable container. Clean the affected area carefully; suitable cleaners are: Warm water and cleansing agent Do not flush with water or aqueous cleansing agents 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:

Use only in well ventilated areas. Keep away from heat and direct sunlight. Do not smoke. Avoid damaging or rupturing battery. No special measures required. · Information about fire - and explosion protection: No special measures required. · Storage: • **Requirements to be met by storerooms and receptacles:** No special requirements. • Information about storage in one common storage facility: Store away from metals. • Further information about storage conditions: If the battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the battery periodically. 3 months: -10°C~+40°C, 45 to 85%RH And recommended at  $0^{\circ}C \rightarrow 35^{\circ}C$  for long period storage. The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more. Do not store the battery haphazardly in a box or drawer where they may short-circuit each other or be shortcircuited by other metal objects. Store in dry conditions. See product labelling.

Store in cool, dry conditions in well - sealed receptacles.

(Contd. on page 4)

<sup>-</sup> AU

Printing date 03.08.2023 Revision: 03.08.2023 Trade name: VALO<sup>TM</sup> Cordless 400mAh Rechargeable Battery (Contd. of page 3) · Specific end use(s) RCR123A Rechargeable Lithium Iron Phosphate Battery 8 Exposure controls and personal protection • Additional information about design of technical facilities: No further data; see item 7. · Ingredients with limit values that require monitoring at the workplace: 7440-50-8 Copper Foil WES Long-term value: 1\* 0.2\*\* mg/m<sup>3</sup> \*dust & mists (as Cu) \*\*fume 7429-90-5 Aluminum Foil WES Long-term value: 10\* 5\*\* mg/m<sup>3</sup> \*metal dust; \*\*welding, pyro powders • Additional information: The lists valid during the making were used as basis. · Personal protective equipment: • General protective and hygienic measures: Do not eat or drink while working. • **Respiratory protection:** Not required under normal conditions. • Protection of hands: Not necessary under normal conditions, Hand protection: Wear neoprene or natural rubber material gloves if handling an open or leaking battery. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves Natural rubber, NR *Neoprene gloves* The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eve protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery. · **Body protection:** Not necessary under normal conditions,.

General Information Appearance:		
11	Solid	
	Silver-coloured	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Contact with water liberates extremely flammable gases.	

Printing date 03.08.2023

Revision: 03.08.2023

#### Trade name: VALO<sup>TM</sup> Cordless 400mAh Rechargeable Battery

	(Contd. of page 4
· Decomposition temperature:	Not determined.
• Auto-ignition temperature:	130 °C
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
· water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not applicable.
· Kinematic:	Not applicable.
· Other information	No further relevant information available.

#### **10 Stability and Reactivity**

• *Reactivity The product is stable under normal conditions.* 

• *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications. • *Possibility of hazardous reactions:* 

Danger of explosion.

Danger of bursting.

Contact with water releases flammable gases.

#### • Conditions to avoid:

(e.g. static discharge, shock or vibration)

Do not subject the rechargeable battery to mechanical shock.

Vibration encountered during transportation does not cause leakage, fire or explosion.

Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse.

• *Incompatible materials:* No further relevant information available.

· Hazardous decomposition products: Toxic fumes if burned or exposed to fire.

#### **11 Toxicological Information**

· Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 1,786-10,000 mg/kg

Dermal LD50 973-5,000 mg/kg

· Skin corrosion/irritation

Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur. Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

(Contd. on page 6)

<sup>-</sup> AU

Printing date 03.08.2023

Revision: 03.08.2023

#### Trade name: VALO<sup>TM</sup> Cordless 400mAh Rechargeable Battery

(Contd. of page 5)

- *Carcinogenicity Based on available data, the classification criteria are not met.*
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **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**

#### · Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability Not easily biodegradable
- Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

#### **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation

Dispose of contents/container in accordance with international, federal, state, and local regulations.

- · Uncleaned packaging:
- · Recommendation:

Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassemble the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations.

UN-Number	
ADG, IMDG, IATA	UN3480
UN proper shipping name	3480 LITHIUM ION BATTERIES
	3481 LITHIUM ION BATTERIES CONTAINED I
	EQUIPMENT
ADG	3480 LITHIUM ION BATTERIES
IMDG, IATA	LITHIUM ION BATTERIES

Printing date 03.08.2023

Revision: 03.08.2023

Trade name:	VALO <sup>TM</sup>	Cordless	400mAh	Rechargeable	e Batterv
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Transport hazard class(es)	
ADG, IMDG, IATA	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· Packing group	
· ADG, IMDG, IATA	not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
EMS Number:	F-A,S-I
Stowage Category	A
Stowage Code	SW19 For batteries transported in accordance with SP 37 or SP 377 Category C, unless transported on a shor international voyage.
Transport in bulk according to Annex II oj	
and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D/E
IMDG	IMO-IMDG Code [special provision 188]
Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
· IATA	
	(Contd. on page

Printing date 03.08.2023

Revision: 03.08.2023

#### Trade name: VALO<sup>TM</sup> Cordless 400mAh Rechargeable Battery

	(Contd. of page 7)
· Remarks:	Lithium iron phosphate batteries comply with all applicable shipping regulations as prescribed by industry and legal standards which include UN Recommendations on the Transport of Dangeroud Goods; IATA Dangerous Goods regulations and US DOT requiremens. Cell and Batteries have been tested to section 38.3 of the UN Recommendations on the Transport of Dangerous Good Manual of Tests and Criteria. All of the batteries listed in this Safety Data Sheet are less than 100 Whrs; therefore, air shipment of up to 2 batteries without equipment in a package can be shipped as a fully regulated Class 9 Hazardous Material. If more than 2 batteries without equipment are being shipped in one package a fully regulated shipment and must meet the more stringent documentation, marking, and labeling requirements.
· UN "Model Regulation":	UN 3480 LITHIUM ION BATTERIES, 9

#### **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Industrial Chemicals			
	Activated Carbon		
7440-50-8	Copper Foil		
21324-40-3	Lithium Hexaflurophosphate		
1120-71-4	Propane Sultone (PS)		
24937-79-9	Poly Vinylidene Fluoride (PVDF)		
• Standard fo	r the Uniform Scheduling of Medicines and Poisons		
None of the ingredients is listed.			
· Australia: Priority Existing Chemicals			
None of the	None of the ingredients is listed.		

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations:

• Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

1120-71-4 Propane Sultone (PS)

· Chemical safety assessment: A chemical safety assessment has not been carried out.

### **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.

• Relevant phrases from Section 3

H228 Flammable solid. H261 In contact with water releases flammable gas.

(Contd. on page 9)

AU

Printing date 03.08.2023

Revision: 03.08.2023

## Trade name: VALO<sup>TM</sup> Cordless 400mAh Rechargeable Battery

(Contd. of page 8)
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H312 Harmful in contact with skin.
H350 May cause cancer.
• Department issuing SDS: Environmental, Health, and Safety
Contact: Customer Service
Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Sol. 1: Flammable solids – Category 1
Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Carc. 1B: Carcinogenicity – Category 1B
• * Data compared to the previous version altered.
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