

safety data sheet

to product

Ultradent VALO X Rechargeable Batteries 5437 2pk

1. Identification of the substance / preparation and company

Emergency number:

Tox Info Suisse, Freiestrasse 16, 8032 Zürich; Tox-Info Suisse: 145 (24h-operation); info@toxinfo.ch; **In case of emergency: Tel. 145**; (abroad: +41 44 251 51 51); information: +41 44 251 66 66

Company name:

Company name:		
abcdental absolutely best choice	abc dental ag	Gaswerkstrasse 6, 8952 Schlieren Tel. 044 755 51 00, Fax 044 755 51 01
CONDOR A #HENRY SCHEIN* COMPANY	Condor Dental Research CO Sàrl	Ch. des Cibleries 2, CP 300, 1896 Vouvry Tel. 024 482 61 61, Fax 024 482 61 69
curaden dentaldepot	Curaden AG Dentaldepot	Riedstrasse 12, 8953 Dietikon Tel. 041 319 45 00, Fax 041 319 45 90
dema dent	dema dent AG	Furtbachstrasse 16, 8107 Buchs Tel. 044 838 65 65, Fax 044 838 65 66
Flexdental	Flexdental Services SA	Route de la Corniche 1, 1066 Epalinges Tel. 0848 336 825, Fax 021 907 67 02
JORDI Röntgentechnik	Jordi Röntgentechnik AG	Dammstrasse 70, 4142 Münchenstein Tel. 061 417 93 93, Fax 061 417 93 94
KALADENT	Kaladent AG	Schachenstrasse 2, 9016 St. Gallen Tel. 071 282 80 80, Fax 071 282 80 81
LOMETRAL Die Zahnarztausstatter.	Lometral AG	Binzenholzstrasse 20, 5704 Egliswil Tel. 062 775 05 05, Fax 062 775 33 07
//O//ADENT	Novadent AG	Sägereistrasse 17, 8152 Glattbrugg Tel. 044 880 20 20, Fax 044 811 04 40
Smart		

Smart Dentist AG

Verenastrasse 4b, 8832 Wollerau

Tel. 044 726 20 20, Fax 044 726 20 25



Printing date 07/07/2022 Reviewed on 06/28/2022

1 Identification

· Product identifier

· Trade name: VALOTM X Rechargeable Lithium-Ion Battery

· Article number: SDS 471-001.01, 5437

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Ultradent Products Inc.

505 W. Ultradent Drive (10200 S)

South Jordan, UT 84095-3942

USA

onlineordersupport@ultradent.com

· Information department: Customer Service

· Emergency telephone number:

CHEMTREC (NORTH AMERICA) : (800) 424-9300 (INTERNATIONAL) : +(703) 527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

- · Label elements
- · GHS label elements The product is classified according to the Globally Harmonized System (GHS)
- · Hazard pictograms GHS07
- · Signal word Warning
- Health Hazard-determining components of labeling:

Lithium Hexaflurophosphate

· Hazard statements

H302 Harmful if swallowed.

· Precautionary statements

P264 Wash thoroughly after handling.

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

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2

Fire = 0

Reactivity = 0

(Contd. on page 2)

Printing date 07/07/2022 Reviewed on 06/28/2022

Trade name: VALOTM X Rechargeable Lithium-Ion Battery

· HMIS-ratings (scale 0 - 4)

(Contd. of page 1)



Fire = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
12190-79-3	Lithium Cobaltate	≥0.1-<40%
7782-42-5	*	<40%
21324-40-3	Lithium Hexaflurophosphate	>10- ≤ 25%
7440-50-8	Copper Foil	1-10%
7440-02-0	nickel	≥0.1-<1%

4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Immediately call a doctor.
- · 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

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

(Contd. on page 3)

Printing date 07/07/2022 Reviewed on 06/28/2022

Trade name: VALOTM X Rechargeable Lithium-Ion Battery

(Contd. of page 2)

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling See product labeling.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

PEL Long-term value: 15 mppcf* mg/m³ *impinger samples counted by light field techn. REL Long-term value: 2.5* mg/m³ *respirable dust TLV Long-term value: 2* mg/m³ all forms except graphite fibers; *resp. fraction 7440-50-8 Copper Foil PEL Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fiume REL Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fiume TLV Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fjume; as Cu 7440-02-0 nickel PEL Long-term value: 1 mg/m³ REL Long-term value: 1 mg/m³ as Ni; See Pocket Guide App. A TLV Long-term value: 1.5* mg/m³ elemental, *inhalable fraction, A5, BEI	7782	2-42-5 Graphite
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elemental, *inhalable fraction, A5, BEI	REL	
	TLV	

(Contd. on page 4)

Printing date 07/07/2022 Reviewed on 06/28/2022

Trade name: VALOTM X Rechargeable Lithium-Ion Battery

(Contd. of page 3)

· Ingredients with biological limit values:

7440-02-0 nickel

BEI 5 μg/L

Medium: urine

Time: post-shift at end of workweek Parameter: Nickel (background)

30 μg/L Medium: urine

Time: post-shift at end of workweek Parameter: Nickel (background)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

- · Breathing equipment: Not required.
- · Protection of hands:

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 is based on consideration of the penetration times, rates of diffusion and the degradation

· Material of 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.

- · Eye protection: Not required.
- · Body protection: Protective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid

Color: According to product specification

· Odor: Not Applicable · Odor threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/Melting range:Undetermined.Boiling point/Boiling range:2,597 °C

· Flash point: Not applicable

(Contd. on page 5)

Printing date 07/07/2022 Reviewed on 06/28/2022

Trade name: VALOTM X Rechargeable Lithium-Ion Battery

		(Contd. of page
Flammability (solid, gaseous):	Not determined.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density:	Not determined	
Relative density	Not determined	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Soluble	
Partition coefficient (n-octanol/wat	ter): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
VOC content:	0.00 %	
Solids content:	100.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LO	C 50 va	lues that	t are rei	levant fo	or cla	assificatio	n:
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ATE (Acute Toxicity Estimate)

 Oral
 LD50
 >500 mg/kg

 Dermal
 LD50
 >250 mg/kg

- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.

(Contd. on page 6)

Printing date 07/07/2022 Reviewed on 06/28/2022

Trade name: VALOTM X Rechargeable Lithium-Ion Battery

(Contd. of page 5)

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information: Harmful
- · Carcinogenic categories

· IARC (Inter	national Agency for Research on Cancer)	
12190-79-3	Lithium Cobaltate	2B
7440-02-0	nickel	2B
9002-86-2	polyvinyl chloride	3
9002-88-4	Polyethylene low density	3
· NTP (Natio	nal Toxicology Program)	
7440-02-0	nickel	R
· OSHA-Ca (Occupational Safety & Health Administration)	<u> </u>

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior 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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 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 packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- · UN-Number
- · **DOT, IMDG, IATA** UN3480
- · UN proper shipping name
- \cdot **DOT** Lithium ion batteries

(Contd. on page 7)

Printing date 07/07/2022 Reviewed on 06/28/2022

Trade name: VALOTM X Rechargeable Lithium-Ion Battery

	(Contd. of page
IMDG, IATA	LITHIUM ION BATTERIES
Transport hazard class(es)	
DOT, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9.4
Packing group	
DOT, IMDG, IATA	Not Regulated
Environmental hazards:	Not Applicable.
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Hazard identification number (Kemler code)	
EMS Number:	F-A,S-I
Stowage Category	A
Stowage Code	SW19 For batteries transported in accordance with SP 376 or S 377 Category C, unless transported on a short internation voyage.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not Applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: Forbidden
	On cargo aircraft only: 35 kg
IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 3480 LITHIUM ION BATTERIES

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

· Section 355	(extremely l	hazardous sul	bstances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

12190-79-3 Lithium Cobaltate

7440-50-8 Copper Foil

7440-02-0 nickel

· TSCA (Toxic Substances Control Act):

12190-79-3 Lithium Cobaltate ACTIVE

(Contd. on page 8)

Printing date 07/07/2022 Reviewed on 06/28/2022

Trade name: VALOTM X Rechargeable Lithium-Ion Battery

	(Contd. of page
7782-42-5 Graphite	ACTIV
21324-40-3 Lithium Hexaflurophosphate	ACTIV
7440-50-8 Copper Foil	ACTIV
7440-02-0 nickel	ACTIV
Hazardous Air Pollutants	•
12190-79-3 Lithium Cobaltate	
Proposition 65	
Chemicals known to cause cancer:	
7440-02-0 nickel	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
7440-50-8 Copper Foil	
ACGIH Carcinogenicity (American Conference of Governmental Indust	rial Hvgienists)
7440-02-0 nickel	A
9002-86-2 polyvinyl chloride	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
7440-02-0 nickel	

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.

- · Department issuing SDS: Environmental, Health, and Safety
- · Contact: Customer Service
- · Date of preparation / last revision 07/07/2022 / -
- · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit

(Contd. on page 9)

Printing date 07/07/2022 Reviewed on 06/28/2022

Trade name: VALOTM X Rechargeable Lithium-Ion Battery

(Contd. of page 8)

REL: Recommended Exposure Limit BEI: Biological Exposure Limit Acute Toxicity - Oral 4: Acute toxicity - Category 4

* Data compared to the previous version altered.

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