SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product form : Article

Trade name : Lithium Iron Phosphate (LiFePO4) Rechargeable Batteries

Part number(s) : PSL-BTP-24500, PSL-BTP-12100

Type of product : Battery

Document no. : MSDS221ENEU Rev.A

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial uses, Professional uses, Consumer use

Use of the substance/mixture : Battery

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

GRACO DISTRIBUTION BV
Slakweidestraat 31
3630 Maasmechelen - Belgium
T +32 89 770 700
reach@graco.com - www.graco.com

Supplier

GRACO Ltd.
29 Wellington St
LS1 4DL Leeds - United Kingdom
T 0800 404 76 60
reach@graco.com

Manufacturer

Power-Sonic Corporation
7550 Panasonic Way
San Diego, CA 92154 - Unites States
T 1 619 991 2020

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Child-resistant fastening : Not applicable

Tactile warning : Not applicable

2.3. Other hazards

Other hazards : The rechargeable Li-ion battery cells described in this Safety Data Sheet are sealed units which are not hazardous when used according to the manufacturer's recommendations. Results of PBT and vPvB assessment : Not applicable.

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not classified

3.2. Mixtures

Substance name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
lambda2-iron(2+) lithium(1+) phosphate	CAS-No.) 15365-14-7 (EC-No.) 604-917-2	23 - 33	Not classified
carbon	CAS-No.) 7440-44-0 (EC-No.) 231-153-3	12 - 17	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice : The rechargeable Li-ion battery cells described in this Safety Data Sheet are sealed units which are not hazardous when used according to the manufacturer's recommendations. Risk of exposure only occurs if the battery cell is mechanically, thermally, or electrically abused and the enclosure is compromised. If this occurs, exposure to electrolyte solutions contained in the battery cell may occur by inhalation, eye contact, skin contact, or ingestion. First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

Inhalation : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact : Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.

Ingestion : Rinse mouth thoroughly with water. Drink plenty of water. In case of doubt or persistent symptoms, consult always a physician.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation : Health injuries are not known or expected under normal use.

Skin contact : Health injuries are not known or expected under normal use.

Eyes contact : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Flood with plenty of water. Alcohol resistant foam. carbon dioxide (CO2), dry chemical powder, foam. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Not determined

5.2. Special hazards arising from the substance or mixture

Specific hazards : Not flammable. Exposing battery cell to excessive heat, fire, or over voltage condition may cause a leak, fire, hazardous vapors, and hazardous decomposition products.

Hazardous decomposition products in case of fire : Toxic and corrosive fumes are released.

5.3. Advice for firefighters

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapors. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the solid spill. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not expose the battery to high temperatures or fire. Disconnect the battery before working on or near any disposed part of the vehicle electrical system. Take precautionary measures against static discharge. Do not allow to enter into surface water or drains. Avoid shock and friction. Do not disassemble, short circuit, puncture, incinerate, crush, or puncture the battery.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding-stuffs. Remove contaminated clothes. Wash contaminated clothing before reuse.

7.2. Precautions for safe handling

Storage conditions : Keep container tightly closed. Store in a dry, cool and well-ventilated place. Keep away from heat. Protect from moisture.

Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

For further information see section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

carbon (7440-44-0)		
Austria	MAK (OEL TWA)	
Austria	MAK (OEL STEL)	
Poland	NDS (OEL TWA)	

Additional information : Recommended monitoring procedures. Personal air monitoring. Room air monitoring.

8.2. Exposure controls

Engineering measure(s) : Provide adequate ventilation. Organizational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling.

Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection : Not required for normal conditions of use

Eye protection : Not required for normal conditions of use

Body protection : Wear suitable working clothes.

Respiratory Protection : Not required for normal conditions of use

Thermal Hazard protection : Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Lithium batteries
Colour	: No data available.
Odour	: None
Odour	: No data available.
Odour threshold	: No data available.
pH	: No data available.
pH solution	: Not available
Relative evaporation rate (butylacetate=1)	: No data available.
Melting / freezing point	: No data available.
Freezing point	: No data available.
Initial boiling point and boiling range	: No data available.
Flash point	: No data available.
Auto-ignition temperature	: No data available.
Decomposition Temperature	: No data available.
Flammability	: No data available.
Vapour pressure	: No data available.
Vapour density	: No data available.
Relative density	: No data available.
Solubility	: Water: No data available
Partition coefficient n-octanol/water	: No data available.
Kinematic viscosity	: No data available.
Dynamic viscosity	: No data available.
Explosive propoerties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising proporties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available.
Particle size	: Not available.
Particle size distribution	: Not available.
Particle shape	: Not available.
Particle aspect ratio	: Not available.
Particle aggregation state	: Not available.
Particle agglomeration state	: Not available.
Particle specific surface area	: Not available.
Particle dustiness	: Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. See Section 7 for information on safe handling.

10.4. Conditions to avoid

Do not expose the battery to high temperatures or fire. Protect from moisture. See Section 7 for information on safe handling.

10.5. Incompatible materials

None under normal processing. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Reference to other sections 5.2

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity : Not classified (Article: Not applicable)

lambda2-iron(2+) lithium(1+) phosphate (15365-14-7)	
LD50/dermal/rat	> 2000 mg/kg
LC50/inhalation/4h/rat	> 3,2 mg/l/4h
carbon (7440-44-0)	
LD50/oral/rat	> 10000 mg/kg

Skin corrosion/irritation : Not classified (Article: Not applicable) pH: No data available

Serious eye damage/irritation : Not classified (Article: Not applicable) pH: No data available

Respiratory or skin sensitisation : Not classified (Article: Not applicable)

Germ cell mutagenicity : Not classified (Article: Not applicable)

Carcinogenicity : Not classified (Article: Not applicable)

Reproductive toxicity : Not classified (Article: Not applicable)

STOT-single exposure : Not classified (Article: Not applicable)

STOT-repeated exposure : Not classified (Article: Not applicable)

Aspiration hazard : Not classified (Article: Not applicable)

Lithium Iron Phosphate (LiFePO4) Rechargeable Batteries	
Kinematic viscosity	No data available

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Article: Not applicable, Electrolyte :The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : The rechargeable Li-ion battery cells described in this Safety Data Sheet are sealed units which are not hazardous when used according to the manufacturer's recommendations.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

12.2. Persistence and degradability

Lithium Iron Phospate (LiFePO4) Rechargeable Batteries	
Persistence and degradability	Article: Not applicable.

12.3. Bioaccumulative potential

Lithium Iron Phospate (LiFePO4) Rechargeable Batteries	
Bioaccumulative potential	Article: Not applicable.
lambda2-iron(2+) lithium(1+) phosphate (15365-14-7)	
Partition coefficient n-octanol/water	> 0,564 (at 20 °C)

12.4. Mobility in soil

Lithium Iron Phospate (LiFePO4) Rechargeable Batteries	
Mobility in soil	Not applicable

12.5. Results of PBT and vPvB assessment

Lithium Iron Phospate (LiFePO4) Rechargeable Batteries	
Results of PBT assessment	Not applicable

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Article: Not applicable, Electrolyte : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12.7. Other adverse effects

Other adverse effetcs : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Additional information : Comply with local regulations for disposal. Dispose of Battery to a hazardous or special waste collection point. Do not puncture or incinerate. Do not pierce or burn, even after use. Refer to manufacturer/supplier for information on recovery/recycling.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities The following Waste Codes are only suggestions: other batteries and accumulators (CH: 16 06 05 ds).

SECTION 14a: Transport Information (BATTERIES ONLY)

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14a.1. UN number				
3480	3480	3480	3480	3480
14a.2. Un proper shipping name				
LITHIUM ION BATTERIES	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES
Transport document description				
UN 3480 LITHIUM ION BATTERIES, 9A, (E)	UN 3480 LITHIUM ION BATTERIES, 9	UN 3480 LITHIUM ION BATTERIES, 9A,	UN 3480 LITHIUM ION BATTERIES, 9A	UN 3480 LITHIUM ION BATTERIES, 9A
14a.3. Transport hazard class(es)				
9A	9A	9A	9A	9A
				
14a.4 Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14a.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14a.6. Special precautions for user

Special precautions for user : This battery has passed the UN manual of tests and criteria part III 38.3 requirements.

- Overland transport

Classification code (ADR) : M4

Special provisions : 188, 230, 310, 348, 376, 377, 387, 636

Limited quantities (ADR) : 0

Excepted quantities (ADR) : E0

Packing instructions (ADR) : P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906

Transport category (ADR) : 2

Tunnel restriction code : E

EAC code : 2Y

- Transport by sea

Special provisions (IMDG)	: 188, 230, 310, 348, 376, 377, 384, 387
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P903, P908, P909 , P910, P911, LP903, LP904, LP905, LP906
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-I
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW19
Properties and observations (IMDG)	: Electrical batteries containing lithium ion encased in a rigid metallic body. Lithium ion batteries may also be shipped in, or packed with, equipment. Electrical lithium batteries may cause fire due to an explosive rupture of the body caused by improper construction or reaction with contaminants.

- Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: See 965
CAO max net quantity (IATA)	: See 965
Special provisions (IATA)	: A88, A99, A154, A164, A183, A201, A206, A213, A331, A334, A802
ERG cod (IATA)	: 12 FZ

- Inland waterway transport

Classification code (ADN)	: M4
Special provisions (ADN)	: 188, 230, 310, 348, 376, 377, 387, 636
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

- Rail transport

Classification code (RID)	: M4
Special provisions (RID)	: 188, 230, 310, 348, _376, 377, 387, 636
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P903, 908, 909, P910, P911, LP903, LP904, LP905, LP906
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 90

14.7 Maritime transport in bulk according to IMO instruments

Code: IBC	: Not applicable

SECTION 14b: Transport Information (BATTERIES CONTAINED IN EQUIPMENT)

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14a.1. UN number				
3481	3481	3481	3481	3481
14a.2. UN proper shipping name				
LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT
Transport document description				
LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, 9A, (E)	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, 9	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, 9A	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, 9A	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, 9A
14a.3 Transport Hazard Class(es)				
9A	9A	9A	9A	9A

ADR	IMDG	IATA	ADN	RID
				
14.4 Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Special precautions for user : This battery has passed the UN manual of tests and criteria part III 38.3 requirements.

- Overland transport

Classification code (ADR) : M4

Special provisions : 188, 230, 310, 348, 360, 376, 377, 387, 390, 670

Limited quantities (ADR) : 0

Excepted quantities (ADR) : E0

Packing instructions (ADR) : P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906

Transport category (ADR) : 2

Tunnel restriction code : E

EAC code : 2Y

- Transport by sea

Special provisions (IMDG) : 188, 230, 310, 348, 360, 376, 377, 384, 387

Limited quantities (IMDG) : 0

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-I

Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW19
Properties and observations (IMDG)	: Electrical batteries containing lithium ion encased in a rigid metallic body. Lithium ion batteries may also be shipped in, or packed with, equipment. Electrical lithium batteries may cause fire due to an explosive rupture of the body caused by improper construction or reaction with contaminants.

- Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 967
PCA max net quantity (IATA)	: 5 kg
CAO packing instructions (IATA)	: 967
CAO max net quantity (IATA)	: 35 kg
Special provisions (IATA)	: A48, A88, A99, A154, A164, A181, A185, A206, A213, A220
ERG cod (IATA)	: 12 FZ

- Inland waterway transport

Classification code (ADN)	: M4
Special provisions (ADN)	: 188, 230, 310, 348, 360, 376, 377, 387, 390, 670
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

- Rail transport

Classification code (RID)	: M4
Special provisions (RID)	: 188, 230, 310, 348, 360, 376, 377, 387, 390, 670
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P903, 908, 909, P910, P911, LP903, LP904, LP905, LP906
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 90

14.7 Maritime transport in bulk according to IMO instruments

Code: IBC	: Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance on the REACH candidate list

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

Germany

Regulatory reference : Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)

WGK remark : Not applicable

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

Waterbezwaarlijkheid : Not applicable

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

Article: Not applicable

SECTION 16: Other information

Abbreviations and acronyms

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue

	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency), supplier SDS, Loli.

Training advice : Training staff on good practice.

Other information : This battery has passed the UN manual of tests and criteria part III 38.3 requirements. The rechargeable Li-ion battery cells described in this Safety Data Sheet are sealed units which are not hazardous when used according to the manufacturer's recommendations. Classification - Assessment method: CLP Calculation method (Article 9). Not applicable. Article.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]