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

1.1 Product identifier

Trade name: Lithium Ionen Akku / Akku-Pack (LiFePO4) (packed with equipment)

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

Application of the substance / the mixture Rechargeable Li-ion battery

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Tridonic GmbH & Co KG Färbergasse 15 6850 Dornbirn Austria Tel: +43 5572 395-0 sales@tridonic.com

Further information obtainable from:

Gerhard Radl gerhard.radl@tridonic.com

1.4 Emergency telephone number:

+43 5572 395-0 Available during office hours: Mo - Fr 8.00 - 16.00 h

Call the national emergency number!

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

Additional information:

The product itself is declared as an article and is not subject to the provisions of classification in sense of the regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 void Hazard pictograms void Signal word void Hazard statements void

Additional information:

The product itself is declared as an article and is not subject to the provisions of labeling in sense of the regulation (EC) No. 1272/2008.

2.3 Other hazards

Lithium-ion batteries are gas-tight and harmless if the manufacturer's instructions are observed during use and handling.

Never use chargers that are not suitable for the type of battery with rechargeable batteries. The limits for maximum current load, charging and discharging voltage must be strictly adhered to! Do not short-circuit.

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Do not damage mechanically (pierce, deform, disassemble, etc.). Do not heat or burn above the permissible temperature. Keep batteries away from small children. Always store batteries in a dry and cool place.

Lithium-ion batteries are safe to use when used properly and within the parameters specified by the manufacturer. Incorrect handling or circumstances resulting in improper operation may result in leakage of battery contents and decomposition products, resulting in severe reactions hazardous to health and the environment. In principle, contact with leaked battery components can pose a risk to health and the environment. Sufficient body and respiratory protection is therefore required in contact with conspicuous batteries (leakage of contents, deformation, discoloration, dents, etc.). Lithium-ion batteries can react very violently in combination with fire, for example. Battery components with considerable energy can be emitted.

As with other batteries, lithium batteries can continue to be a source of danger even when they are supposedly discharged.

Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Rechargeable lithium-ion batteries are articles from which no substance is released when used properly.

Dangerous components:		
CAS: 12190-79-3	Lithuim-Cobalt(III)-oxid	0 – 45%
EINECS: 235-362-0	🚸 Repr. 1B, H360	
CAS: 193214-24-3	Lithium Cobalt Nickel Aluminum Oxide	0 – 45%
EC number: 803-110-4	 Carc. 2, H351 Skin Sens. 1, H317 	
CAS: 346417-97-8	Lithium Nickel Manganese Cobalt Oxide	0 – 45%
EC number: 620-032-4	 Carc. 2, H351 Skin Sens. 1, H317 	
CAS: 7440-44-0	carbon	10 – 30%
EINECS: 231-153-3 RTECS: FF 5250100	substance with a Community workplace exposure limit	
CAS: 12057-17-9 EC number: 601-724-5	Lithium Manganese (III,IV) oxide	0 – 20%
	 Acute Tox. 4, H302; Acute Tox. 4, H332 Aquatic Chronic 4, H413 	
		(Contd. on page 3)

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		(Contd. of page 2
CAS: 616-38-6 EINECS: 210-478-4 Index number: 607-013-00-6 RTECS: FG 0450000	dimethyl carbonate Image: Big State of the state	1 – 15%
CAS: 7440-50-8 EINECS: 231-159-6 Index number: 029-024-00-X RTECS: GL 5325000	copper Aquatic Chronic 2, H411	7 – 13%
CAS: 623-53-0 ELINCS: 433-480-9	Ethylmethylcarbonat	1 – 10%
CAS: 96-49-1 EINECS: 202-510-0 RTECS: FF 9550000	ethylene carbonate	0 – 10%
CAS: 7429-90-5 EINECS: 231-072-3 RTECS: BD 0330000	aluminium substance with a Community workplace exposure limit	3 – 9%
CAS: 21324-40-3 EINECS: 244-334-7	Lithiumhexafluorophosphat(1-) Acute Tox. 3, H301 STOT RE 1, H372 Skin Corr. 1A, H314	0.1 – 5%

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In normal cases no specific measures needed.

It always applies:

In case of discomfort or doubt, seek medical advice.

If unconscious, use a stable lateral position and do not administer anything through mouth.

The following measures apply to contact with the contents of a damaged battery:

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Take off contaminated clothing and wash it before reuse.

Seek medical treatment in case of complaints.

After eye contact:

Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do. Continue rinsing.

Consult an ophthalmologist or eye clinic immediately.

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After swallowing:

Rinse mouth thoroughly with cold water. Do not induce vomiting. If the patient is fully conscious, give one or two glass of water to drink. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Batteries may burst at high temperatures, which may result in flammable, toxic and/or corrosive vapours. May form hydrofluoric acid if the electrolyte comes into contact with water.

In case of fire, the following can be released:

COx

Hydrogen fluoride (HF)

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Remove container from fire, if possible without risk.

Cool endangered receptacles with water spray.

Ensure good ventilation.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Restricted access to the affected area until cleaning work is completed.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid skin and eye contact with damaged batteries.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Cover leaked material with inert absorbent material (sand or soil) and dispose of in suitable containers. Clean again.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

In any case, the warnings on batteries and the instructions for use of devices and other applications must be carefully observed.

Use only the recommended battery types.

Lithium-ion batteries should preferably be stored at room temperature and dry (max. 40°C), large temperature fluctuations should be avoided. (e.g. do not store near heaters, do not permanently expose to sunlight).

Never open, mechanically damage or burn the battery!

Observe protective measures and safety instructions.

Information about fire - and explosion protection:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in dry conditions.

Store in a cool location.

Protect from heat and direct sunlight.

Store in accordance with local/regional/national/international regulations.

Information about storage in one common storage facility:

Store away from oxidising agents.

Do not store together with acids.

Further information about storage conditions:

Recharge at regular intervals during prolonged storage.

Store in original container.

Recommended storage temperature:

room temperature

Storage at room temperature (approx. 20°C) at approx. 20~60% of the nominal capacity.

Storage class: 11

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Lithium-ion batteries are products from which no substances are released under normal and reasonably foreseeable conditions of use.

Ingredients with limit values that require monitoring at the workplace:		
CAS: 7440-44-0	carbon	
MAK (Austria)	Short-term value: 10 A mg/m³ Long-term value: 5 A mg/m³ (Alveolarstaub mit <1%Quartz)	
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		(Contd. of page
AGW (Germany)	Long-term value: 1.25* 10** mg/m³ 2(II);*alveolengängig**einatembar; AGS, DFG, Y	
WEL (Great Britain)	Long-term value: 10* 4** mg/m³ *inhalable dust **respirable	
CAS: 7440-50-8 cop	oper	
MAK (Austria)	Short-term value: 4E; 0.4A* mg/m³ Long-term value: 1E; 0.1A* mg/m³ als Cu berechnet; *als Rauch	
MAK (Germany)	Long-term value: 0.01 A mg/m³ als Cu	
LEP (Spain)	Long-term value: 0.01 mg/m³ fracción resp., d	
VLEP (France)	Short-term value: 2** mg/m³ Long-term value: 0.2* 1** mg/m³ *fumées **poussières, en Cu	
WEL (Great Britain)	Short-term value: 2** mg/m³ Long-term value: 0.2* 1** mg/m³ *fume **dusts and mists (as Cu)	
TWA (Italy)	Long-term value: 0.2* 1* mg/m³ *fumi; **polveri e nebbie	
WGW (Netherland)	Long-term value: 0.1 mg/m³ inhaleerbaar	
CAS: 7429-90-5 alu	minium	
MAK (Austria)	Short-term value: 20 E 10 A mg/m³ Long-term value: 10 E 5 A mg/m³ (als Metall)	
AGW (Germany)	Long-term value: 1.25* 10** mg/m³ 2(II);*alveolengängig**einatembar; AGS, DFG, Y	
LEP (Spain)	Long-term value: 1 mg/m³ d, fracción respirable	
VLEP (France)	Long-term value: 5* 10** mg/m³ *pulvérulent **métal	
WEL (Great Britain)	Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust	
TWA (Italy)	Long-term value: 1 mg/m³ A4, (j); metallico e composti insolubili	
WGW (Netherland)	Long-term value: 0.05* mg/m³ *Metaal en onoplosbare verb., inadembaar (privaat)	
CAS: 21324-40-3 Li	thiumhexafluorophosphat(1-)	
AGW (Germany)	Long-term value: 0.2 E mg/m³ 1(I);Y, 10, DFG, als Li	
	1	(Contd. on page

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Regulatory information

MAK (Austria): GKV 2020, 156. Verordnung, 09.04.2021, Teil II AGW (Germany): TRGS 900 WEL (Great Britain): EH40/2020 MAK (Germany): MAK- und BAT-Liste LEP (Spain): Límites de exposición profesional para agentes químicos VLEP (France): ED 1487 05.2021 TWA (Italy): Valori Limite di Soglia WGW (Netherland): Grenswaarden gezondheidsschadelijke stoffen

DNELs				
CAS: 7440-50-8 copper				
Oral	Long-term e	xposure - systemic effects	0.041 mg/kg bw/d (consumer)	
Dermal	Long-term e	xposure - systemic effects	137 mg/kg bw/d (consumer)	
			137 mg/kg bw/d (workers)	
	short-term e	xposure - systemic effects	273 mg/kg bw (consumer)	
			273 mg/kg bw (workers)	
Inhalative	Long-term e	xposure - local effects	1 mg/m³ (consumer)	
			1 mg/m³ (workers)	
	short-term e	xposure - local effects	1 mg/m³ (consumer)	
			1 mg/m³ (workers)	
CAS: 742	9-90-5 alumi	nium		
Oral	Long-term e	xposure - systemic effects	7.9 mg/kg bw/d (consumer)	
Inhalative	Long-term e	xposure - systemic effects	3.72 mg/m³ (workers)	
	Long-term e	xposure - local effects	3.72 mg/m³ (workers)	
PNECs	·			
CAS: 744	0-50-8 coppe	er		
fresh wate	r	7.8 µg/l		
sea water	sea water 5.2 µg/l			
STP	TP 0.23 mg/l			
sediment	(fresh water)	87 mg/kg dw		
sediment	(sea water)	676 mg/kg dw		
soil 65 mg/kg dw				
Ingredients with biological limit values:				
CAS: 7429-90-5 aluminium				
BGW (Germany) 50 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: bei Langzeitexposition: am Schichtende nach mehrere vorangegangenen Schichten Parameter: Aluminium				

Regulatory information BGW (Germany): TRGS 903

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Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls

No further data; see item 7.

Technical measures and the use of suitable working methods take priority over the use of personal protective equipment.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Avoid skin and eye contact with damaged batteries.

Avoid inhalation of spilled material.

Take off contaminated clothing and wash it before reuse.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.

Respiratory protection: Not required when handling undamaged batteries.

Hand protection

Not required when handling undamaged batteries.

Wear protective gloves made of chloroprene or rubber if batteries are damaged.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Not required when handling undamaged batteries.

Wear protective goggles if batteries are damaged.

Body protection: Not required when handling undamaged batteries.

Environmental exposure controls Do not allow to enter sewers/ surface or ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information	
Physical state	Solid
Colour:	Various colours
Odour:	Odourless
Odour threshold:	No information available.

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		(Contd. of page 8)
Melting point/freezing point:	No information available.	
Boiling point or initial boiling point and boiling		
range	No information available.	
Flammability	Not determined.	
Lower and upper explosion limit		
Lower:	No information available.	
Upper:	No information available.	
Flash point:	Not applicable.	
Decomposition temperature:	No information available.	
рН	Not applicable.	
Viscosity:		
Kinematic viscosity	Not applicable.	
Dynamic:	Not applicable.	
Solubility		
water:	Insoluble.	
Partition coefficient n-octanol/water (log value)	No information available.	
Vapour pressure:	Not applicable.	
Density and/or relative density		
Density:	No information available.	
Vapour density	Not applicable.	
Particle characteristics	See item 3.	
9.2 Other information		
Appearance:		
Form:	Solid	
Important information on protection of healt		
and environment, and on safety.		
Auto-ignition temperature:	No information available.	
Explosive properties:	No information available.	
Change in condition		
Softening point/range		
Oxidising properties	No information available.	
Evaporation rate	Not applicable.	
Information with regard to physical hazar	d	
classes		
Explosives	void	
Flammable gases	void	
Aerosols	void	
Oxidising gases	void	
Gases under pressure	void	
Flammable liquids	void	
Flammable solids	void	
Self-reactive substances and mixtures	void	
Pyrophoric liquids	void	
Pyrophoric solids	void	
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Self-heating substances and mixtures	void	
Substances and mixtures, which emit flam	nable	
gases in contact with water	void	
Oxidising liquids	void	
Oxidising solids	void	
Organic peroxides	void	
Corrosive to metals	void	
Desensitised explosives	void	

SECTION 10: Stability and reactivity

10.1 Reactivity No hazardous reactions known if stored and used as prescribed.

10.2 Chemical stability No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No further relevant information available.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not expose the rechargeable Li-Ion battery to mechanical shock.

Do not disassemble, crush, short-circuit, or connect with incorrect polarity. Avoid mechanical or electrical abuse.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

No decomposition if used and stored according to specifications.

With open cells there is the possibility of the release of hydrofluoric acid and carbon monoxide.

SECTION 11: Toxicological information

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

Inhalation: No probable route of exposure of the product itself. Inhalation of substances leaked from damaged batteries may irritate the respiratory tract and damage organs during prolonged or repeated exposure.

Skin contact: Contact with the undamaged battery does not present a hazard. Skin contact with damaged batteries may cause burns.

Eye contact: Contact with the undamaged battery does not constitute a hazard. Eye contact with spills from the damaged battery may cause burns.

Ingestion: No probable route of exposure of the product itself. Ingestion of spills may cause burns to the esophagus and stomach. Harmful if swallowed.

The product is declared as an article and is not subject to the CLP classification and labelling requirements. **Acute toxicity** Based on available data, the classification criteria are not met.

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LD/LC50 values relevant for classification:			
CAS: 616-38-6 dimethyl carbonate			
Oral	LD50	13,000 mg/kg (rat)	
Dermal	LD50	> 5,000 mg/kg (rabbit)	
CAS: 744	CAS: 7440-50-8 copper		
Oral	LD50	> 2,000 mg/kg (rat)	
CAS: 96-4	9-1 ethyl	ene carbonate	
Oral	LD50	10,000 mg/kg (rat)	
CAS: 7429-90-5 aluminium			
Oral	LD50	15,900 mg/kg (rat)	
Inhalative	LC50/4h	> 888 mg/m³ (rat)	

Skin corrosion/irritation

The electrolyte contained in the cell or battery is classified as a caustic liquid and causes skin burns.

Serious eye damage/irritation

The electrolyte contained in the cell or battery is classified as a corrosive liquid and causes serious eye damage.

Respiratory or skin sensitisation

The electrolyte contained in the cell or battery contains sensitizing substances.

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

Carcinogenicity The electrolyte contains nickel and cobalt compounds.

Reproductive toxicity The electrolyte contains cobalt compounds.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure The electrolyte contains nickel compounds.

Aspiration hazard Based on available data, the classification criteria are not met.

Other information: There is no danger from the undamaged battery.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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12.7 Other adverse effects Additional ecological information: General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system. Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose only through authorized companies in accordance with local regulations.

European waste catalogue

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

16 06 05 other batteries and accumulators

Uncleaned packaging:

Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

14.1 UN number or ID number ADR/RID/ADN, IMDG, IATA 14.2 UN proper shipping name ADR/RID/ADN

IMDG, IATA

14.3 Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA



Class Label 14.4 Packing group ADR/RID/ADN, IMDG, IATA 14.5 Environmental hazards: 14.6 Special precautions for user UN3481

3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT LITHIUM ION BATTERIES PACKED WITH EQUIPMENT

9 Miscellaneous dangerous substances and articles. 9A

not regulated Not applicable. Warning: Miscellaneous dangerous substances and articles.

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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 SP 377 Category C, unless transported on a short international voyage.
14.7 Maritime transport in bulk according to IM	0
instruments	Not applicable.
Transport/Additional information:	Special provision 188: The carriage of Li-ion batteries is not subject to the provisions of ADR/RID/IMDG if the requirements set out therein are met.
ADR/RID/ADN	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

According to REACH, the product is an article and therefore not subject to classification and labelling according to CLP Regulation (EC) No. 1272/2008.

There is no obligation to prepare safety data sheets for articles. This data sheet describes the safety requirements and is based on the safety data sheet according to REACH Regulation (EC) No. 1907/2006.

Directive 2012/18/EU

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

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

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Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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

Does not contain SVHC substances ≥ 0.1 %. (Status: 11/2022)

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

H225 Highly flammable liquid and vapour.

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Training hints

Regular training of staff involved in the transport of dangerous goods (in accordance with Chapter 1.3 ADR).

Department issuing SDS:

UmEnA GmbH

http://umena.at

Email: office@umena.at

Date of previous version: 29.09.2021

Version number of previous version: 1.2

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

according to 1907/2006/EC

Printing date 08.11.2022

Version number 1.3 (replaces version 1.2)

TRIDONIC

Revision: 08.11.2022

Trade name: Lithium Ionen Akku / Akku-Pack (LiFePO4) (packed with equipment)

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IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) 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. Liq. 2: Flammable liquids - Category 2 Acute Tox. 3: Acute toxicity - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Carc. 2: Carcinogenicity - Category 2 Repr. 1B: Reproductive toxicity - Category 1B STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4 * Data compared to the previous version altered.

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