| Issue date: 14.06.2022 | 2 | Version 2 | Last Revision: 14.06.2022 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1 Identification | 2 | | |
| · Product identif | | | |
| | | hium lan Dattam 40V | / NI |
| · Product nar | ne: Rechargeable Lit | hium Ion Battery 18V | [/] N |
| • Technica to power Ratings: <i>2</i> | ber: VPCXB18-1 Il function equipment 18V, 6.0 Ah, 108 Wh 08.3 grams | | |
| CPS Australia P · Address: · 109 Welland Av · SA 5007 Austra · Tel: +61 8 8340 · Fax: +61 8 8340 · Email: sales@c · Manufacturer/S | lia 7055) 7033 psaustralia.com.au Supplier: CPS Products | 65) | re: 13 11 26 (24 hours) |
| | | | |
| 2 Hazard(s) Id | entification | | |
| Articles, such a | | t from GHS SDS classifi | ication criteria. The GHS criteria is not ind environmental hazards of an article. |
| Acute Tox. 2 | H310 Fatal in contact | t with skin. | |
| Skin Sens. 1 | H317 May cause an a | allergic skin reaction. | |
| Carc. 2 | • | causing cancer. Route of | |
| STOT RE 2 | | mage to the respiratory s te of exposure: Inhalatior | system through prolonged or repeated n. |
| Aquatic Chronic | 3 H412 Harmful to aqu | atic life with long lasting | effects. |

· Label elements

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



· Signal word Danger

 Hazard-determining components of labelling: Lithiumhexafluorophosphat(1-) Lithium cobalt(III) oxide nickel

Hazard statements

Fatal in contact with skin. May cause an allergic skin reaction. Suspected of causing cancer. Route of exposure: Inhalation. May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

(Contd. on page 2)

AU

Version 2

Product name: Rechargeable Lithium Ion Battery 18V N

(Contd. of page 1)

Harmful to aquatic life with long lasting effects.

- **Precautionary statements**
- Obtain special instructions before use.

Do not breathe fume/spray.

Wash thoroughly after handling.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents in accordance with local regulations.

· Other hazards

- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

| · Chemical components: | | | | |
|------------------------|-------------------------------|-----------|--|--|
| | Lithium cobalt(III) oxide | ≥10-≤50% | | |
| 21324-40-3 | Lithiumhexafluorophosphat(1-) | ≥10-≤50% | | |
| 7440-50-8 | copper | ≥2.5-≤25% | | |
| 7429-90-5 | aluminium | ≥2.5-≤10% | | |
| 7440-02-0 | nickel | ≥0-≤10% | | |
| | gredients | | | |
| 7782-42-5 | Graphite | ≥10-≤50% | | |

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

4 First Aid Measures

· Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- · After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse cautiously with water. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists.

- After swallowing: If symptoms persist consult doctor.
- · Information for doctor: Treat Symptomatically

Most important symptoms and effects, both acute and delayed

May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard.

See section 11.

• Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. on page 3)

Version 2

Last Revision: 14.06.2022

Product name: Rechargeable Lithium Ion Battery 18V N

(Contd. of page 2)

5 Fire Fighting Measures

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

• Special hazards arising from the substance or mixture

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

Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Take precautions to avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
- **Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- **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

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

- Open and handle receptacle with care.
- Information about fire and explosion protection: Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles:
- See section 10 for incompatible materials.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

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

(Contd. on page 4)

Issue date: 14.06.2022

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Version 2

Last Revision: 14.06.2022

Product name: Rechargeable Lithium Ion Battery 18V N

(Contd. of page 3)

| Control parameters | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingredients with limit values that | require monitoring at the workplace: |
| 7782-42-5 Graphite (25-50%) | |
| WES Long-term value: 3 mg/m ³ | |
| 7440-50-8 copper (10-25%) | |
| WES Long-term value: 1* 0.2** mg/m ³ | |
| *dust & mists (as Cu) **fume | |
| 7429-90-5 aluminium (2.5-10%) WES Long-term value: 10* 5** mg/m ³ | |
| *metal dust;**welding, pyro powd | lers |
| 7440-02-0 nickel (2.5-10%) | |
| WES Long-term value: 1 mg/m ³ | |
| Metal: Sen | |
| • Additional information: The list | s valid during the making were used as basis. |
| | d contaminated clothing ely. v pollution use respiratory filter device. In case of intens |
| Immediately remove all soiled an Store protective clothing separate Respiratory protection: In case of brief exposure or lov longer exposure use self-contain | d contaminated clothing ely. v pollution use respiratory filter device. In case of intens ed respiratory protective device. |
| Immediately remove all soiled an Store protective clothing separate Respiratory protection: In case of brief exposure or lov | d contaminated clothing ely. v pollution use respiratory filter device. In case of intens ed respiratory protective device. ties |
| Immediately remove all soiled an Store protective clothing separate Respiratory protection: In case of brief exposure or low longer exposure use self-contain Physical and Chemical Proper Information on basic physical and ch General Information Appearance: Form: Colour: | d contaminated clothing ely. v pollution use respiratory filter device. In case of intens ed respiratory protective device. ties hemical properties Fluid According to product specification |
| Immediately remove all soiled an Store protective clothing separate Respiratory protection: In case of brief exposure or low longer exposure use self-contain Physical and Chemical Proper Information on basic physical and ch General Information Appearance: Form: Colour: Odour: | d contaminated clothing ely. v pollution use respiratory filter device. In case of intens ed respiratory protective device. ties hemical properties Fluid According to product specification Characteristic |
| Immediately remove all soiled an Store protective clothing separate Respiratory protection: In case of brief exposure or low longer exposure use self-contain Physical and Chemical Proper Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour threshold: | d contaminated clothing ely. v pollution use respiratory filter device. In case of intens ed respiratory protective device. ties hemical properties Fluid According to product specification Characteristic Not determined. |
| Immediately remove all soiled an Store protective clothing separate Respiratory protection: In case of brief exposure or low longer exposure use self-contain Physical and Chemical Proper Information on basic physical and ch General Information · Appearance: · Form: · Colour: · Odour: · Odour: · Odour threshold: · pH-value: | d contaminated clothing ely. v pollution use respiratory filter device. In case of intens ed respiratory protective device. ties hemical properties Fluid According to product specification Characteristic |
| Immediately remove all soiled an Store protective clothing separate Respiratory protection: In case of brief exposure or low longer exposure use self-contain Physical and Chemical Proper Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour threshold: | d contaminated clothing ely. v pollution use respiratory filter device. In case of intens ed respiratory protective device. ties hemical properties Fluid According to product specification Characteristic Not determined. Not applicable. Undetermined. |
| Immediately remove all soiled an Store protective clothing separate Respiratory protection: In case of brief exposure or low longer exposure use self-contain Physical and Chemical Proper Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: | d contaminated clothing ely. v pollution use respiratory filter device. In case of intens ed respiratory protective device. ties hemical properties Fluid According to product specification Characteristic Not determined. Not applicable. Undetermined. |
| Immediately remove all soiled an Store protective clothing separate Respiratory protection: In case of brief exposure or low longer exposure use self-contain Physical and Chemical Proper Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling | d contaminated clothing ely. v pollution use respiratory filter device. In case of intense ed respiratory protective device. ties nemical properties Fluid According to product specification Characteristic Not determined. Not applicable. Undetermined. range: Undetermined. |

Version 2

Last Revision: 14.06.2022

Product name: Rechargeable Lithium Ion Battery 18V N

| | (Contd. of page 4 | | |
|------------------------------------|-----------------------------------------------|--|--|
| · Auto-ignition temperature: | Product is not selfigniting. | | |
| · 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-octano | ol/water: Not determined. | | |
| · Viscosity: | | | |
| · Dynamic: | Not applicable. | | |
| · Kinematic: | Not applicable. | | |
| · 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.

11 Toxicological Information

· Information on toxicological effects

· Acute toxicity

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 333-1,000 mg/kg Dermal LD50 167-500 mg/kg

21324-40-3 Lithiumhexafluorophosphat(1-)

- Oral LD50 100 mg/kg (ATE)
- Dermal LD50 50 mg/kg (ATE)

Primary irritant effect:

· Skin corrosion/irritation May cause mild skin irritation.

(Contd. on page 6)

⁻ AU

Issue date: 14.06.2022

Version 2

Last Revision: 14.06.2022

Product name: Rechargeable Lithium Ion Battery 18V N

(Contd. of page 5)

- Serious eye damage/irritation May cause eye irritation.
- · Respiratory or skin sensitisation Sensitisation possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

12 Ecological Information

· Toxicity

- Aquatic toxicity: Harmful to aquatic life with long lasting effects.
- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
 - · **Bioaccumulative potential** No further relevant information available.
 - Mobility in soil No further relevant information available.
- · Ecotoxical effects:
 - · Remark: Harmful to fish
- · Additional ecological information:
 - · General notes:

Water hazard class 2 (German Regulation) (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. Harmful to aquatic organisms

- · Results of PBT and vPvB assessment
 - · **PBT:** Not applicable.
 - **vPvB:** Not applicable.

· Other adverse effects Avoid release to the environment.

13 Disposal considerations

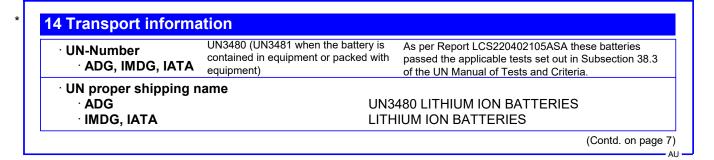
Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

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



ALL

Issue date: 14.06.2022

Version 2

Last Revision: 14.06.2022

Product name: Rechargeable Lithium Ion Battery 18V N (Contd. of page 6) · Transport hazard class(es) · ADG · Class 9 (M4) Miscellaneous dangerous substances and articles. · Label 9A · IMDG, IATA Can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 965 Section IB, or (PI) 966 Section II, or (PI) 967 Section II appropriate of IATA DGR 63rd (2022 Edition) for transportation. Packing group ADG, 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 А • Stowage Code SW19 For batteries transported in accordance with SP 376 or SP 377 Category C, unless transported on a short international voyage. UN 3481 · Transport in bulk according to Annex II of Marpol 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 Е ·IMDG · Limited quantities (LQ) 0 • Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity (Contd. on page 8)

Page 8/9

Issue date: 14.06.2022

Version 2

Last Revision: 14.06.2022

Product name: Rechargeable Lithium Ion Battery 18V N

(Contd. of page 7)

· UN "Model Regulation":

UN 3480 LITHIUM ION BATTERIES

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No REACH Annex XVII restrictions

Contains no REACH candidate substance

· Australian Inventory of Industrial Chemicals

All ingredients are listed.

• Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS). • Hazard pictograms



· Signal word Danger

- · Hazard-determining components of labelling:
- Lithiumhexafluorophosphat(1-) Lithium cobalt(III) oxide nickel

· Hazard statements

Fatal in contact with skin.

May cause an allergic skin reaction.

Suspected of causing cancer. Route of exposure: Inhalation.

May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

Harmful to aquatic life with long lasting effects.

Precautionary statements
Obtain special instructions before use.
Do not breathe fume/spray.
Wash thoroughly after handling.
IF exposed or concerned: Get medical advice/attention.
Store locked up.

Dispose of contents in accordance with local regulations.

Directive 2012/18/EU
 Named dangerous substances - ANNEX I None of the ingredients is listed.

(Contd. on page 9)

Version 2

Last Revision: 14.06.2022

Product name: Rechargeable Lithium Ion Battery 18V N

(Contd. of page 8)

| This information is based on our present knowledge. However, this shall no any specific product features and shall not establish a legally valid contractua | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Contact: Engineering Department Issue Date: June 14, 2022 v2 | |
| Abbreviations and acronyms: ADR: 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 vPvB: very Persistent and very Bioaccumulative Acute Tox. 2: Acute toxicity – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Cate (GHS) Globally Harmonised System of classification and labelling of chemicals (7th revised) | |