

SAFETY DATA SHEET

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

1.1. Product identifier

Name of the substance McCulloch Lithium Ion Batteries (less than 100Wh)

Identification number Registration number

Synonyms None.

Battery pack identification Articles covered by this SDS are shown on the attached list.

Issue date 26-February-2018

Version number 01 **Revision date** Supersedes date

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

Identified uses Lithium ion battery. None known. Uses advised against

1.3. Details of the supplier of the safety data sheet

Company name Husqvarna UK Ltd.

> Preston Rd, Aycliffe Business Park Newton Aycliffe, Co.Durham, DL5 6UP

Telephone + 44 (0) 1325 302302 + 44 (0) 1325 310339 Fax

www.husqvarnagroup.com

E-mail customer.services.uk@husqvarna.co.uk +1-760-476-3961 (Access code 333721)

1.4. Emergency telephone

number

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

The product is an article and therefore the classification requirements according to Regulation (EC) 1272/2008 as amended do not apply.

Hazard summary Exposure to contents of an open or damaged battery: Harmful if swallowed. Causes skin and eye

burns. May cause damage to organs through prolonged or repeated exposure. Possible risk of

impaired fertility.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: McCulloch Lithium Ion Batteries (less than 100Wh)

None. Hazard pictograms Signal word None.

Hazard statements Exempt (manufactured article).

Precautionary statements

Prevention

Keep out of reach of children. P102

Response Not assigned.

Store as indicated in Section 7. Storage

Disposal Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information None.

2.3. Other hazards None known.

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SECTION 3: Composition/information on ingredients

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3.1. Substances						
General information						
Chemical name	%	CAS-No.	/ EC No.	REACH Registration No.	Index No.	Notes
McCulloch Lithium Ion Batteries than 100Wh)	(less 100	N.	/A -	-	-	
Classification: -						
Anode						
Chemical name	%	CAS-No.	/ EC No.	REACH Registration No.	Index No.	Notes
Carbon		-	-	-	-	
Copper			-	-	-	
Binder		•	-			
Chemical name	%	CAS-No.	/ EC No.	REACH Registration No.	Index No.	Notes
Polyvinylidene Fluoride		-	-	-	-	
Case		•	-			
Chemical name	%	CAS-No.	/ EC No.	REACH Registration No.	Index No.	Notes
Iron			-	-	-	
Cathode		•	_			
Chemical name	%	CAS-No.	/ EC No.	REACH Registration No.	Index No.	Notes
Lithium transition metal oxidate		-	-	-	-	
Aluminium			-	-	-	
Graphite			-	-	-	
Nickel			-	-	-	
Electrolyte		•	-			
Chemical name	%	CAS-No.	/ EC No.	REACH Registration No.	Index No.	Notes
Organic carbonates		-	-	-	-	
Lithium chloride			-	-	-	
Lithium hexafluorophosphate			-	-	-	
				nts representative of various		r lithium ion
SECTION 4: First aid measu		mposition co	Jilcentratio	ons will vary with battery typ	C/3IZC.	
		data sheet t	to the doct	tor in attendance.		
4.1. Description of first aid measur	-	adia officel	.5 1.16 4001	or in attoriumnoo.		
Inhalation E	Exposure to contents of an open or damaged battery: Move to fresh air. Get medical attention if any discomfort continues.					
Skin contact E	Exposure to contents of an open or damaged battery: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if any discomfort continues.					
Eye contact E	Exposure to contents of an open or damaged battery: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if any discomfort continues.					
	Exposure to contents of an open or damaged battery: Rinse mouth thoroughly. Get medical attention if any discomfort occurs					

4.2. Most important symptoms

Skin and eye burns.

attention if any discomfort occurs.

and effects, both acute and delayed

4.3. Indication of any

Treat symptomatically.

immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

General fire hazards The product is not flammable. Will burn if involved in a fire.

5.1. Extinguishing media

Suitable extinguishing Dry chemical powder.

SPECIFIC RECOMMENDATIONS. Class D fire extinguisher. media Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Containers can burst violently when heated, due to excess pressure build-up. Fire may produce irritating, corrosive and/or toxic gases.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective clothing.

Special fire fighting procedures

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Leak from a damaged or opened battery: Avoid contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Wear protective clothing as described in Section 8 of this safety data sheet.

Do not contaminate water sources or sewer. 6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

For emergency responders

Leak from a damaged or opened battery: Wipe up with absorbent material (e.g. cloth, fleece).

Place in a designated labeled waste container, dispose as hazardous waste.

6.4. Reference to other

sections

For waste disposal, see section 13 of the SDS

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure and fire. Do not open, disassemble, crush or burn battery. Do not expose battery to extreme heat or fire. Elevated temperatures can result in reduced battery

Observe good industrial hygiene practices. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Store in a cool, dry place. Store away from incompatible materials

(See Section 10).

Storage temperature: between -20°C and 35°C°C. Relative Humidity range between 45% and

85%.

7.3. Specific end use(s) Lithium ion battery.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures

Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

Airborne exposures to hazardous substances are not expected when product is used for its

intended purpose.

UK EH40 WEL: Skin designation

Lithium transition metal oxidate (CAS -) Can be absorbed through the skin. Nickel (CAS -) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering

Ventilation is not normally required. Leak from a damaged or opened battery: Provide adequate

ventilation if fumes or vapours are generated.

Individual protection measures, such as personal protective equipment

Personal protective equipment should be chosen according to the CEN standards and in **General information**

discussion with the supplier of the personal protective equipment.

Eye/face protection Not necessary under normal conditions. Wear chemical goggles if handling an open or leaking

battery.

Skin protection

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- Hand protection Not necessary under normal conditions.

Leak from a damaged or opened battery: Wear chemical-resistant, impervious gloves.

- Other Not necessary under normal conditions. Respiratory protection Not necessary under normal conditions.

Thermal hazards Not applicable.

Do not store food, drink and tobacco near the product. Practice good housekeeping. Observe good Hygiene measures

industrial hygiene practices. Wash thoroughly after handling.

Environmental exposure

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Battery. Solid. Physical state **Form** Solid. Colour Various. Odour Odourless. Not available. **Odour threshold** Not available. pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Not available. Vapour pressure Not available. Vapour density Relative density Not available. Not available. Solubility(ies) Not applicable. Partition coefficient

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity** Not available. Not available. **Explosive properties** Not available. **Oxidising properties**

No relevant additional information available. 9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability The product is stable under normal conditions of use, storage and transport.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may

> occur and cause battery failure and fire. Heat, sparks, flames, elevated temperatures.

10.5. Incompatible materials Do not immerse in seawater or other high conductivity liquids.

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

General information Low hazard for usual industrial or commercial handling by trained personnel.

Information on likely routes of exposure

Inhalation Not relevant, due to the form of the product. Exposure to contents of an open or damaged battery:

May cause irritation to the respiratory system.

Skin contact Not relevant, due to the form of the product. Exposure to contents of an open or damaged battery:

Causes skin burns.

Eye contact Not relevant, due to the form of the product. Exposure to contents of an open or damaged battery:

Causes serious eye damage.

Ingestion Not relevant, due to the form of the product. Exposure to contents of an open or damaged battery:

May have a corrosive effect on the digestive canal.

Symptoms Exposure to contents of an open or damaged battery: Causes skin and eye burns.

11.1. Information on toxicological effects

Acute toxicity Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Skin corrosion/irritation Exposure to contents of an open or damaged battery: Causes skin burns.

Serious eye damage/eye

irritation

Exposure to contents of an open or damaged battery: Causes serious eye damage.

Respiratory sensitisation No data available.

Skin sensitisation Exposure to contents of an open or damaged battery: May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity
No data available.

No data available.

No data available.

single exposure

Specific target organ toxicity -

repeated exposure

No data available.

Aspiration hazard No data available.

Mixture versus substance Not available.

information

Other information No data available.

SECTION 12: Ecological information

12.1. Toxicity No ecological impacts expected under normal use conditions.

12.2. Persistence and No data available.

degradability

12.3. Bioaccumulative potential No data available.Partition coefficient Not applicable.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBTNot a PBT or vPvB substance or mixture.

and vPvB assessment

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

12.6. Other adverse effects

Residual waste Dispose in accordance with applicable federal, state, and local regulations.

Contaminated packaging Not applicable. **EU waste code** 16 06 05

Disposal methods/information Do not dispose in fire. Dispose waste and residues in accordance with applicable federal, state,

and local regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN3480

14.2. UN proper shipping LITHIUM ION BATTERIES

name

14.3. Transport hazard class(es)
Class 9
Subsidiary risk -

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Label(s) 9A Hazard No. (ADR) **Tunnel restriction code** Ε 14.4. Packing group Ш 14.5. Environmental hazards No. Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user May not be subject to ADR; See SP 188. **RID** 14.1. UN number UN3480 14.2. UN proper shipping LITHIUM ION BATTERIES name 14.3. Transport hazard class(es) 9 Class Subsidiary risk 9A Label(s) 14.4. Packing group Ш 14.5. Environmental hazards No 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user May not be subject to RID; See SP 188. **ADN** 14.1. UN number **UN3480** LITHIUM ION BATTERIES 14.2. UN proper shipping name 14.3. Transport hazard class(es) 9 Class Subsidiary risk 9A Label(s) 14.4. Packing group Ш 14.5. Environmental hazards No Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user May not be subject to ADN; See SP 188. **IATA** 14.1. UN number UN3480 LITHIUM ION BATTERIES 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 9 Subsidiary risk Label(s) 9A 14.4. Packing group Ш 14.5. Environmental hazards No **ERG Code** Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user **IMDG** UN3480 14.1. UN number 14.2. UN proper shipping LITHIUM ION BATTERIES 14.3. Transport hazard class(es) 9 Subsidiary risk 9A Label(s) 14.4. Packing group Ш 14.5. Environmental hazards Marine pollutant No. **EmS** 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

May not be subject to IMDG; See SP 188.

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for user

SDS UK

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Not applicable.

Code

General information

May also be transported as UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Aluminium (CAS -) Copper (CAS -) Graphite (CAS -)

Lithium chloride (CAS -)

Lithium transition metal oxidate (CAS -)

Nickel (CAS -)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Nickel (CAS -)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is an article and therefore the classification requirements according to Regulation

(EC) 1272/2008 as amended do not apply.

National regulations

Not available.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

List of abbreviations

CAS Number: Chemical Abstracts Service Registry Number.

References European Treaty for international road transport of dangerous goods (ADR)

International Maritime Code for the Transport of Dangerous Goods (IMDG)

Information on evaluation method leading to the classification of mixture

This product is an article according to REACH.

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Full text of any H-statements not written out in full under Sections 2 to 15

None.

Training information

Disclaimer

Follow training instructions when handling this material.

The information in the sheet was written based on the best knowledge and experience currently

available.

Li-Ion Battery McCulloch Less than 100 Wh

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