

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 1 / 19

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

#### 1.1 Product identifier

ARCALUB-C2.BATTERY

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

##### 1.2.1 Relevant uses

Battery

##### 1.2.2 Uses advised against

None known.

#### 1.3 Details of the supplier of the safety data sheet

##### Company

Schaeffler Technologies AG & Co. KG  
Georg-Schäfer-Str. 30  
97421 Schweinfurt / GERMANY  
Phone +49 (0)9721 91 - 0  
Homepage [www.schaeffler.com](http://www.schaeffler.com)

##### Address enquiries to

##### Technical information

[support.is@schaeffler.com](mailto:support.is@schaeffler.com)

##### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)  
Safety data sheets are available from the supplier.

#### 1.4 Emergency telephone number

##### Advisory body

+49 (0)89-19240 (24h) (English)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

No classification.

#### 2.2 Label elements

This product is an article and therefore it does not require labelling according to regulations REACH/CLP.  
Requirements in accordance to directive for batteries must be observed.

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 2 / 19

### 2.3 Other hazards

The Lithium-Iron-Disulfide batteries described in this Data Sheet are hermetically sealed units, which are not hazardous when used according to the recommendations of the manufacturer. Under normal condition of use of the batteries, the electrode materials and the liquid electrolyte they contain are non-reactive provided the battery integrity is maintained.

**CAUTION:** Batteries may explode or leak, and cause burn injury, if recharged, disposed of in fire, mixed with a different battery type, inserted backwards or disassembled.

#### Physico-chemical hazards

May rupture violently when heated or when charged.  
Reactions of the electrolyte and the electrodes with water and humidity possible.

#### Human health dangers

The contained dangerous materials are not freely available with foreseeable use.

#### Environmental hazards

The contained dangerous materials are not freely available with foreseeable use.

#### Other hazards

In case of improper use or in the event of an accident may leak hazardous ingredients named in section 3 and hazards such as in section 5, point 5.2. was available. The section 16 is to be observed.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances not applicable

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 3 / 19

### 3.2 Mixtures

The product is an article.

Range [%]	Substance
30 - 40	Iron CAS: 7439-89-6, EINECS/ELINCS: 231-096-4
25 - 40	Pyrit (FeS <sub>2</sub> ) CAS: 1309-36-0, EINECS/ELINCS: 215-167-7
< 10	1,3-Dioxolane CAS: 646-06-0, EINECS/ELINCS: 211-463-5, EU-INDEX: 605-017-00-2 GHS/CLP: Flam. Liq. 2: H225
4 - 6	Lithium CAS: 7439-93-2, EINECS/ELINCS: 231-102-5, EU-INDEX: 003-001-00-4 GHS/CLP: Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Water-react. 1: H260
2 - 5	Polypropylene CAS: 9003-07-0, EINECS/ELINCS: 618-352-4
2 - 5	Aluminium CAS: 7429-90-5, EINECS/ELINCS: 231-072-3, EU-INDEX: 013-002-00-1
< 5	1,2-Dimethoxyethane CAS: 110-71-4, EINECS/ELINCS: 203-794-9, EU-INDEX: 603-031-00-3 GHS/CLP: Flam. Liq. 2: H225 - Acute Tox. 4: H332 - Repr. 1B: H360FD - EUH019
< 5	Propylene carbonate CAS: 108-32-7, EINECS/ELINCS: 203-572-1, EU-INDEX: 607-194-00-1 GHS/CLP: Eye Irrit. 2: H319
1 - 3	Graphite CAS: 7782-42-5, EINECS/ELINCS: 231-955-3
0.1 - 2	Styrol-Butadien-Block-Copolymer CAS: 9003-55-8, EINECS/ELINCS: Polymer
0.1 - 2	Natrium-Carboxymethylcellulose
1 - 2	Zubereitung
< 1	Lithium perchlorate CAS: 7791-03-9, EINECS/ELINCS: 232-237-2 GHS/CLP: Ox. Sol. 2: H272 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - STOT SE 3: H335

#### Comment on component parts

For full text of H-statements: see SECTION 16.  
The structural design of the cells prevents release of the hazardous media contained therein when the unit is used for its intended purpose.

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 4 / 19

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>General information</b>	Measures are only needed for damaged cells.
<b>Inhalation</b>	Consult a doctor immediately. Remove the victim into fresh air and keep him calm.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice. Shield unaffected eye.
<b>Ingestion</b>	Consult a doctor immediately. Do not induce vomiting.

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

No information available.

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

Treat symptomatically.  
Forward this sheet to your doctor.  
A damaged battery will release concentrated and caustic potassium hydroxide.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

<b>Suitable extinguishing</b>	Carbon dioxide. Metal fire-ex powder. Dry powder. Much water.
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**Extinguishing media that must not be used**

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 5 / 19

### 5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:  
Sulphur oxides (SO<sub>x</sub>).  
Risk of formation of toxic pyrolysis products.  
Bursting batteries can be forcibly projected from a fire.  
Danger of electric shock during fire-fighting of batteries.  
With the use of water-based extinguishing agents care is required because hydrogen can be released, which accumulates after extinguishing the fire in poorly ventilated or confined areas and may re-fire or cause an explosion.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Wear full protective suit.  
Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Lock off contaminated area.  
Use personal protective equipment.  
Keep people away and stay on the upwind side.  
Use breathing apparatus if exposed to vapours/dust/aerosol.

### 6.2 Environmental precautions

Do not discharge leakages into the drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically.  
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 6 / 19

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

No special measures necessary if used correctly.

Accidental short circuit for a few seconds will not seriously affect the battery.

Prolonged short-circuit will cause the battery to lose energy, generate significant heat and cause the safety vent release vent to open.

Sources of short-circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices. Damaging a lithium battery may result in an internal short circuit.

The contents of an open battery, including a vented battery, when exposed to water, may result in a fire and / or explosion. Crushed or damaged batteries may result in a fire.

Do not charge this batteries! This battery type is manufactured in a ready-to-use-state. It is not designed for recharging. Recharging can cause battery leakage, or in some cases, can cause the safety release vent to open. Inadvertent charging can occur if a battery is installed backwards.

Keep away from all sources of ignition.

Wash hands before breaks and after work.

#### 7.2 Conditions for safe storage, including any incompatibilities

Do not store with combustible materials.

Protect from heat/overheating.

Protect from sun.

Store in a dry place.

Storage: < 30°C

Ensure battery terminals are protected during storage.

#### 7.3 Specific end use(s)

See product use, SECTION 1.2

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024 Version 2.0. Supersedes version: 1.0	Page 7 / 19
--	-------------

### SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

##### Ingredients with occupational exposure limits to be monitored (UK)

	Substance
	Polypropylene
	CAS: 9003-07-0, EINECS/ELINCS: 618-352-4
	Long-term exposure: 5 mg/m <sup>3</sup> , TWA
	Aluminium
	CAS: 7429-90-5, EINECS/ELINCS: 231-072-3, EU-INDEX: 013-002-00-1
	Long-term exposure: 10 mg/m <sup>3</sup> , inhalable dust (respirable dust: 4 mg/m <sup>3</sup> )
	Graphite
	CAS: 7782-42-5, EINECS/ELINCS: 231-955-3
	Long-term exposure: 10 mg/m <sup>3</sup> , (inhalable dust)

##### Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

#### 8.2 Exposure controls

**Additional advice on system design** Not required under normal conditions.

**Eye protection** Safety glasses. (EN 166:2001)

**Hand protection** The details concerned are recommendations. Please contact the glove supplier for further information.  
Butyl rubber, >120 min (EN 374-1/-2/-3).

**Skin protection** Solvent-resistant protective clothing (EN 340)

**Other** Measures are only valid for damaged cells.

**Respiratory protection** Not required under normal conditions.

**Thermal hazards** No information available.

**Delimitation and monitoring of the environmental exposition** not determined

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024

Page 8 / 19

Version 2.0. Supersedes version: 1.0

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	solid
<b>Form</b>	Cylindric
<b>Color</b>	not applicable
<b>Odor</b>	not applicable
<b>Odour threshold</b>	not applicable
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point or initial boiling point and boiling range [°C]</b>	No information available.
<b>Flash point [°C]</b>	not applicable
<b>Flammability</b>	not applicable
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/cm<sup>3</sup>]</b>	No information available.
<b>Relative density</b>	not determined
<b>Bulk density [kg/m<sup>3</sup>]</b>	not applicable
<b>Solubility in water</b>	not applicable
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	No information available.
<b>Kinematic viscosity</b>	not applicable
<b>Relative vapour density</b>	No information available.
<b>Melting point [°C]</b>	No information available.
<b>Auto-ignition temperature [°C]</b>	No information available.
<b>Decomposition temperature [°C]</b>	No information available.
<b>Particle characteristics</b>	No information available.

#### 9.2 Other information

No information available.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

See SECTION 10.3.

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 9 / 19

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

When cell is exposed to an external short-circuit, it will cause heat generation and ignition.  
Reactions of the electrolyte and the electrodes with water and humidity possible.  
May rupture violently when heated or when charged.

### 10.4 Conditions to avoid

Excessive heat. Protect from direct sunlight or ultraviolet radiation.  
Keep away from dirt, rust, chemicals, alkalis and acids as well as heavy metal salts and amines -  
Spontaneous decomposition.  
Protect from mechanical stress.

### 10.5 Incompatible materials

Oxidizing agent  
Water

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024 Version 2.0. Supersedes version: 1.0	Page 10 / 19
<b>SECTION 11: Toxicological information</b>	

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

#### Acute oral toxicity

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
LD50, oral, Rat, > 3200 mg/kg (Gestis)
Iron, CAS: 7439-89-6
LD50, oral, Rat, > 5000 mg/kg
Graphite, CAS: 7782-42-5
LD50, oral, Human, > 15000 mg/kg (Lit.)
Polypropylene, CAS: 9003-07-0
LD50, oral, Rat, > 5000 mg/kg (Lit.)
Propylene carbonate, CAS: 108-32-7
LD50, oral, Rat, 33300 mg/kg (IUCLID)
Aluminium, CAS: 7429-90-5
LD50, oral, Rat, > 15900 mg/kg bw

#### Acute dermal toxicity

Substance
Polypropylene, CAS: 9003-07-0
LD50, dermal, Rabbit, > 2000 mg/kg (Lit.)
Propylene carbonate, CAS: 108-32-7
LD50, dermal, Rabbit, > 20000 mg/kg (IUCLID)

#### Acute inhalational toxicity

Substance
Iron, CAS: 7439-89-6
LC50, inhalative, Rat, 5,05 mg/L/4h

#### Serious eye damage/irritation not applicable

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
Eye, Rabbit, negativ, OECD 405, negativ
Iron, CAS: 7439-89-6
non-irritating

#### Skin corrosion/irritation not applicable

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
dermal, Rabbit, OECD 404, negativ

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024 Page 11 / 19  
Version 2.0. Supersedes version: 1.0

	Iron, CAS: 7439-89-6
	non-irritating

**Respiratory or skin sensitisation** not applicable

	Substance
	1,2-Dimethoxyethane, CAS: 110-71-4
	OECD 429, non-sensitizing
	Iron, CAS: 7439-89-6
	non-sensitizing

**Specific target organ toxicity — single exposure** not applicable

	Substance
	1,2-Dimethoxyethane, CAS: 110-71-4
	No information available.

**Specific target organ toxicity — repeated exposure** not applicable

	Substance
	1,2-Dimethoxyethane, CAS: 110-71-4
	NOAEC, oral, Rat (female), 132 mg/kg bw/day, In vivo study, negativ

**Mutagenicity** not applicable

	Substance
	1,2-Dimethoxyethane, CAS: 110-71-4
	Ames-test, negativ
	Iron, CAS: 7439-89-6
	in vitro, negativ
	in vivo, negativ

**Reproduction toxicity** not applicable

**- Fertility**

	Substance
	1,2-Dimethoxyethane, CAS: 110-71-4
	NOAEL, oral, Rat, 132 mg/kg bw/day, adverse effect observed
	NOAEC, inhalative, Rat, 187 mg/m <sup>3</sup> , OECD 414, adverse effect observed

**- Development** No information available.

**Carcinogenicity** not applicable

**Aspiration hazard** not applicable

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024 Version 2.0. Supersedes version: 1.0	Page 12 / 19
--	--------------

### General remarks

Toxicological data of complete product are not available.  
The contained ingredients can be harmful to humans, but are hermetically enclosed in article and can not be released.

### 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** Contains no ingredients with endocrine-disrupting properties.

**11.2.2 Other information** Measures are only valid for damaged systems.

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
LC50, (96h), fish, > 5000 mg/L
EC50, (48h), Daphnia magna, 4000 mg/L
Graphite, CAS: 7782-42-5
LC50, (96h), Danio rerio, > 100 mg/l (OECD 203)
EC50, (48h), Daphnia magna, > 100 mg/l (OECD 202)
EC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD 201)
Lithium, CAS: 7439-93-2
EC50, (48h), Invertebrates, 19,1 - 34,3 mg/L
EC50, (72h), Algae, 41,62 - 153,44 mg/L
Lithium perchlorate, CAS: 7791-03-9
LC50, (48h), Leuciscus idus, 1850 mg/L
EC50, (24h), Daphnia magna, 1077 mg/L
IC5, (168h), Scenedesmus quadricauda (alga), 360 mg/L
Propylene carbonate, CAS: 108-32-7
EC50, (48h), Daphnia magna, > 1000 mg/l (IUCLID)
EC50, (96h), Cyprinus carpio, > 1000 mg/l (IUCLID)
Aluminium, CAS: 7429-90-5
NOEC, (96h), Lepomis macrochirus, > 50 mg/l

### 12.2 Persistence and degradability

#### Behaviour in environment compartments

**Behaviour in sewage plant** not applicable

**Biological degradability** not applicable

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 13 / 19

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

Ecological data of complete product are not available.

Not required under normal conditions.

The contained ingredients can be harmful for the environment, but they are hermetically enclosed in article and can not be released.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Coordinate disposal with the disposal contractor/authorities if necessary.

For recycling, consult manufacturer.

**Waste no. (recommended)** 160604

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

**Waste no. (recommended)**

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024 Version 2.0. Supersedes version: 1.0	Page 14 / 19
<b>SECTION 14: Transport information</b>	

### 14.1 UN number or ID number

Transport by land according to ADR/RID 3090


Inland navigation (ADN) 3090

Marine transport in accordance with IMDG 3090

Air transport in accordance with IATA 3090

### 14.2 UN proper shipping name

Transport by land according to ADR/RID Lithium batteries

- Classification Code M4
- Label 
- ADR LQ 0 I
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (E)


Inland navigation (ADN) Lithium batteries

- Classification Code M4
- Label 

Marine transport in accordance with IMDG Lithium Metal Batteries

- EMS F-A, S-I
- Label 
- IMDG LQ -

Air transport in accordance with IATA Lithium Metal Batteries

- Label   

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 15 / 19

### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID 9

Inland navigation (ADN) 9

Marine transport in accordance with IMDG 9

Air transport in accordance with IATA 9

### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024 Version 2.0. Supersedes version: 1.0	Page 16 / 19
--	--------------

### 14.7 Maritime transport in bulk according to IMO instruments

No information available.

## SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

**- Comment on component parts** SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0.1%  
CAS 110-71-4 - 1,2-Dimethoxyethane

**- Annex I (REACH)** The product is not subject to Annex I restrictions.

**- Annex XIV (REACH)** According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances ≥ 0.1% that are subject to authorisation.

**- Annex XVII (REACH)** According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 30, 40, 72, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.

**TRANSPORT-NATIONAL REGULATIONS (UK):** ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)  
EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

**- Observe employment restrictions for people** not determined

**- VOC (2010/75/CE)** not applicable

### 15.2 Chemical safety assessment

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 17 / 19

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H272 May intensify fire; oxidiser.

H319 Causes serious eye irritation.

EUH019 May form explosive peroxides.

H360FD May damage fertility. May damage the unborn child.

H332 Harmful if inhaled.

H260 In contact with water releases flammable gases which may ignite spontaneously.

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H225 Highly flammable liquid and vapour.

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 18 / 19

### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

# ARCALUB-C2.BATTERY

## Safety Data Sheet (UK REACH) (UK)

Date printed 12.04.2024, Revision 12.04.2024  
Version 2.0. Supersedes version: 1.0

Page 19 / 19

### 16.3 Other information

**Customs Tariff** not determined

**Classification procedure**

**Modified position** none