

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 3/23/2018 Revision date: 9/11/2023 Supersedes: 9/1/2023 Version: 1.10 SDS No: 11728-0001

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

# 1.1. Product identifier

Product form : Article

Trade name : Batterypack - Dangerous Good according to UN3480

Other means of identification

Handelsname / Trading name	Sachnummer / Part Number		nische Da hnical det		Länge / Length [mm]	Breite / Width [mm]	Höhe / Height [mm]	Gewicht / Weight [kg]
PowerPack 300 Frame Anthracite	0275007548	36Vx40	8,2 Ah	300 Wh	320	90	90	2,4
PowerPack 300 Frame Anthracite	0275007549	36Vx40	8,2 Ah	300 Wh	320	90	90	2,4
PowerPack 300 Rack Anthracite	0275007550	36Vx40	8,2 Ah	300 Wh	370	122	76	2,7
Battery Pack Frame Black 400Wh	0275007503	36Vx40	11 Ah	400 Wh	300	100	95	2,6
Battery Pack Frame White 400Wh	0275007504	36Vx40	11 Ah	400 Wh	300	100	95	2,6
Battery Pack Rack Black 400Wh	0275007505	36Vx40	11 Ah	400 Wh	370	120	75	2,6
PowerPack 400 Frame Anthracite	0275007512	36Vx40	11 Ah	400 Wh	320	90	90	2,4
PowerPack 400 Frame Anthracite	0275007524	36Vx40	11 Ah	400 Wh	320	90	90	2,4
PowerPack 400 Rack Anthracite	0275007522	36Vx40	11 Ah	400 Wh	370	122	76	2,6
PowerPack 400 Rack Anthracite	0275007525	36Vx40	11 Ah	400 Wh	370	122	76	2,6
PowerTube 400 Horizontal	0275007555	36Vx40	11 Ah	400 Wh	360	84	65	2,8
PowerTube 400 Vertical	0275007556	36Vx40	11 Ah	400 Wh	360	84	65	2,8
PowerTube 400 Horizontal	0275007557	36Vx40	11 Ah	400 Wh	360	84	65	2,8
PowerTube 400 Vertical	0275007558	36Vx40	11 Ah	400 Wh	360	84	65	2,8
PowerPack 500 Frame Anthracite	0275007530	36Vx40	13,4 Ah	500 Wh	320	90	90	2,6
PowerPack 500 Rack Platinum	0275007531	36Vx40	13,4 Ah	500 Wh	370	122	76	2,7
PowerPack 500 Rack Anthracite	0275007532	36Vx40	13,4 Ah	500 Wh	370	122	76	2,7
PowerPack 500 Frame Anthracite	0275007534	36Vx40	13,4 Ah	500 Wh	320	90	90	2,6
PowerPack 500 Rack Type Anthracite	0275007536	36Vx40	13,4 Ah	500 Wh	370	122	76	2,7
PowerTube 500 Horizontal	0275007539	36Vx40	13,4 Ah	500 Wh	360	84	65	2,8
PowerTube 500 Vertical	0275007540	36Vx40	13,4 Ah	500 Wh	360	84	65	2,8
PowerTube 500 Horizontal	0275007541	36Vx40	13,4 Ah	500 Wh	360	84	65	2,8
PowerTube 500 Vertical	0275007542	36Vx40	13,4 Ah	500 Wh	360	84	65	2,8
PowerTube 625 Horizontal	0275007543	36Vx50	16,7 Ah	625 Wh	416	84	65	3,4
PowerTube 625 Vertical	0275007544	36Vx50	16,7 Ah	625 Wh	416	84	65	3,4
PowerTube 625 Horizontal	0275007545	36Vx50	16,7 Ah	625 Wh	416	84	65	3,4
PowerTube 625 Vertical	0275007546	36Vx50	16,7 Ah	625 Wh	416	84	65	3,4
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PowerMore 250	EB1210002S	36Vx20	6,7 Ah	250 Wh	200	89	75	1,6
PowerMore 250	EB1210002T	36Vx20	6,7 Ah	250 Wh	200	89	75	1,6
PowerPack Frame 400	EB1210000L	36Vx20	11,1 Ah	400 Wh	337	92	62	2,2
PowerPack Frame 400	EB1210000P	36Vx20	11,1 Ah	400 Wh	337	92	62	2,2
CompactTube 400	EB12100020	36Vx20	11,1 Ah	400 Wh	352	74	57	2,0
CompactTube 400	EB12100046	36Vx20	11,1 Ah	400 Wh	352	74	57	2,0
CompactTube 400 Fixed Vertical	EB12100047	36Vx20	11,1 Ah	400 Wh	386	57	74	2,1
CompactTube 400 Fixed Horizontal	EB12100048	36Vx20	11,1 Ah	400 Wh	386	74	57	2,1
CompactTube 400 Fixed Vertical	EB12100042	36Vx20	11,1 Ah	400 Wh	386	57	74	2,1
CompactTube 400 Fixed Horizontal	EB12100043	36Vx20	11,1 Ah	400 Wh	386	74	57	2,1
CompactTube 400 Holder Vertical	EB12100049	36Vx20	11,1 Ah	400 Wh	381	57	74	2,1
CompactTube 400 Holder Horizontal	EB1210004A	36Vx20	11,1 Ah	400 Wh	381	74	57	2,1
CompactTube 400 Holder Vertical	EB12100044	36Vx20	11,1 Ah	400 Wh	381	57	74	2,1
CompactTube 400 Holder Horizontal	EB12100045	36Vx20	11,1 Ah	400 Wh	381	74	57	2,1
PowerPack Rack 400	EB1210002N	36Vx40	10,8 Ah	400 Wh	376	122	64	2,8
PowerPack Rack 400	EB12100040	36Vx40	10,8 Ah	400 Wh	376	122	64	2,8
PowerTube 500 Vertical	EB12100016	36Vx40	13,4 Ah	500 Wh	344	84	65	2,9
PowerTube 500 Horizontal	EB12100017	36Vx40	13,4 Ah	500 Wh	344	84	65	2,9
PowerTube 500 Vertical	EB12100018	36Vx40	13,4 Ah	500 Wh	344	84	65	2,9
PowerTube 500 Horizontal	EB12100019	36Vx40	13,4 Ah	500 Wh	344	84	65	2,9
PowerTube 500 Horizontal	EB12100017	36Vx40	13,4 Ah	500 Wh	345	84	65	3,0
PowerTube 500 Horizontal	EB12100019	36Vx40	13,4 Ah	500 Wh	345	84	65	3,0
PowerTube 500 Vertical	EB12100016	36Vx40	13,4 Ah	500 Wh	345	84	65	3,0
PowerTube 500 Vertical	EB12100018	36Vx40	13,4 Ah	500 Wh	345	84	65	3,0
PowerTube 500 Horizontal	EB12100032	36Vx40	13,4 Ah	500 Wh	361	84	65	3,0
PowerTube 500 Horizontal	EB12100034	36Vx40	13,4 Ah	500 Wh	361	84	65	3,0
PowerTube 500 Vertical	EB12100031	36Vx40	13,4 Ah	500 Wh	360	84	65	3,0
PowerTube 500 Vertical	EB12100033	36Vx40	13,4 Ah	500 Wh	360	84	65	3,0
PowerPack Rack 500	EB1210002P	36Vx40	13,6 Ah	500 Wh	376	122	64	3,0
PowerPack Rack 500	EB12100041	36Vx40	13,6 Ah	500 Wh	376	122	64	3,0
PowerPack Frame 545	EB1210004M	36Vx30	14,4 Ah	545 Wh	338	93	81	3,0
PowerPack Frame 545	EB1210004N	36Vx30	14,4 Ah	545 Wh	338	93	81	3,0
PowerPack Frame 600	EB1210000M	36Vx30	16,7 Ah	600 Wh	338	93	81	3,0
PowerPack Frame 600	EB1210000R	36Vx30	16,7 Ah	600 Wh	338	93	81	3,0
PowerTube 625 Vertical	EB12100010	36Vx50	16,7 Ah	625 Wh	414	84	65	3,5

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PowerTube 625 Horizontal	EB12100011	36Vx50	16,7 Ah	625 Wh	414	84	65	3,5
PowerTube 625 Vertical	EB12100012	36Vx50	16,7 Ah	625 Wh	414	84	65	3,5
PowerTube 625 Horizontal	EB12100013	36Vx50	16,7 Ah	625 Wh	414	84	65	3,5
PowerTube 625 Horizontal	EB12100011	36Vx50	16,7 Ah	625 Wh	415	84	65	3,7
PowerTube 625 Horizontal	EB12100013	36Vx50	16,7 Ah	625 Wh	415	84	65	3,7
PowerTube 625 Vertical	EB12100010	36Vx50	16,7 Ah	625 Wh	415	84	65	3,7
PowerTube 625 Vertical	EB12100012	36Vx50	16,7 Ah	625 Wh	415	84	65	3,7
PowerTube 625 Horizontal	EB12100036	36Vx50	16,7 Ah	625 Wh	431	84	65	3,7
PowerTube 625 Horizontal	EB12100038	36Vx50	16,7 Ah	625 Wh	431	84	65	3,7
PowerTube 625 Vertical	EB12100035	36Vx50	16,7 Ah	625 Wh	429	84	65	3,7
PowerTube 625 Vertical	EB12100037	36Vx50	16,7 Ah	625 Wh	429	84	65	3,7
PowerPack Frame 725	EB1210004P	36Vx40	19,2 Ah	725 Wh	344	95	100	4,0
PowerPack Frame 725	EB1210004R	36Vx40	19,2 Ah	725 Wh	344	95	100	4,0
PowerTube 750 Vertical	EB1210000W	36Vx60	20,1 Ah	750 Wh	484	84	65	4,3
PowerTube 750 Horizontal	EB1210000X	36Vx60	20,1 Ah	750 Wh	484	84	65	4,3
PowerTube 750 Vertical	EB1210000Y	36Vx60	20,1 Ah	750 Wh	484	84	65	4,3
PowerTube 750 Horizontal	EB1210000Z	36Vx60	20,1 Ah	750 Wh	484	84	65	4,3
PowerTube 750 Horizontal	EB1210003A	36Vx60	20,1 Ah	750 Wh	500	84	65	4,4
PowerTube 750 Horizontal	EB1210003C	36Vx60	20,1 Ah	750 Wh	500	84	65	4,4
PowerTube 750 Vertical	EB12100039	36Vx60	20,1 Ah	750 Wh	499	84	65	4,4
PowerTube 750 Vertical	EB1210003B	36Vx60	20,1 Ah	750 Wh	499	84	65	4,4
PowerPack Frame 800	EB1210000N	36Vx40	22,2 Ah	800 Wh	344	95	100	4,0
PowerPack Frame 800	EB1210000S	36Vx40	22,2 Ah	800 Wh	344	95	100	4,0
PowerTube 600	EB1210004V	36Vx30	16,7 Ah	600 Wh	425	71	67	3,0
PowerTube 600	EB1210004X	36Vx30	16,7 Ah	600 Wh	425	71	67	3,0
PowerTube 600	EB1210004W	36Vx30	16,7 Ah	600 Wh	438	71	67	3,0
PowerTube 600	EB1210004Y	36Vx30	16,7 Ah	600 Wh	438	71	67	3,0
PowerTube 800 Horizontal	EB1210004Z	36Vx40	22,2 Ah	800 Wh	425	77	71	3,9
PowerTube 800 Horizontal	EB12100050	36Vx40	22,2 Ah	800 Wh	439	77	71	3,9
PowerTube 800 Horizontal	EB12100051	36Vx40	22,2 Ah	800 Wh	425	77	71	3,9
PowerTube 800 Horizontal	EB12100052	36Vx40	22,2 Ah	800 Wh	439	77	71	3,9
PowerTube 800 Vertical	EB12100053	36Vx40	22,2 Ah	800 Wh	425	71	77	3,9
PowerTube 800 Vertical	EB12100054	36Vx40	22,2 Ah	800 Wh	439	71	77	3,9
PowerTube 800 Vertical	EB12100055	36Vx40	22,2 Ah	800 Wh	425	71	77	3,9
PowerTube 800 Vertical	EB12100056	36Vx40	22,2 Ah	800 Wh	439	71	77	3,9

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

#### 1.2.2. Uses advised against

No additional information available

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

#### Supplier

Robert Bosch GmbH Bosch eBike Systems Markwiesenstr. 58 72770 Reutlingen (Kusterdingen)

Germany

T +49 (0)7121 7666000

E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

#### 1.4. Emergency telephone number

Emergency number : INTERNATIONAL: +49 (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

# 2.2. Label elements

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

No labelling applicable

#### 2.3. Other hazards

Other hazards not contributing to the classification

: In case of electrolyte leakage: According to concentration, aqueous solution causes irritations or burns of eyes, skin and mucous membranes. In case of cell damage, possible release of dangerous substances and a flammable gas mixture.

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

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#### 3.2. Mixtures

Comments

: Chemical characterization

Our battery packs meets the definition of "Article" for OSHA Hazard Communication Standard 29CFR Subpart 1910.1200 and of "Manufactured Article" for CCOHS Workplace Hazardous Materials Information System 2015 and therefore our battery packs are exempted from these requirement hence a MSDS/SDS sheet is not required"

Kathode:

Litium-Metall Oxide (active material) Polyvinyldiene Fluoride (Binder) Graphite (conductive material)

Aluminium Foil

Anode:

Carbon(active material) Polyvinyldiene Fluoride (Binder) Cooper Foil

Electrolyte:

Organic solvent (non aqueous liquid)

Silicic acid, lithium salt

**Further Information** 

Because of the cell structure the dangerous ingredients will not be available if used properly.

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general

: The following first aid measures are required only in case of exposure to interior battery components after damage of the external battery casing. Undamaged, closed cells do not represent a danger to the health.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects

: In case of electrolyte leakage: According to concentration, aqueous solution causes irritations or burns of eyes, skin and mucous membranes.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media

- : Cold water and dry powder in large amount are applicable.
- Do not use a heavy water stream. Do not use a solid water stream as it may scatter and spread fire.

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

Fire hazard : If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can

explode/vent. Cell is not flammable but internal organic material will burn if the cell is

incinerated.

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

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

General measures : Wear personal protective equipment. Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

# 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid

short circuiting the cell. Avoid mechanical damage of the cell. Do not open or disassemble.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Store in a well-ventilated place. Keep cool. Store in a well-

ventilated place. Keep cool.

Storage temperature : < 40 °C

#### 7.3. Specific end use(s)

See Section 1.

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#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

### Eye protection:

In case of electrolyte leakage: Protective goggles (EN 166)

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

In case of electrolyte leakage: natural rubber gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of electrolyte leakage: Wear respiratory protection

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

#### Other information:

In case of electrolyte leakage: Do not breathe gas/fumes, Avoid contact with skin, eyes and clothing, Eliminate ignition sources, Wear personal protective equipment.

### **SECTION 9: Physical and chemical properties**

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

Physical state : Solid

Colour: Various colours.Odour: Odourless.Odour threshold: Not availableMelting point: Not availableFreezing point: Not applicable

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Boiling point : Not available Flammability (solid, gas) : Non flammable. Lower explosive limit (LEL) : Not applicable Upper explosive limit (UEL) : Not applicable Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : Not available pН : Not available pH solution : Not available : Not applicable Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available Relative vapour density at 20°C : Not applicable Particle size : Not available

# 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

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

# 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Electrolyte and electrodes may react with water or moisture.

#### 10.4. Conditions to avoid

Do not puncture, crush or incinerate. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. High temperature.

# 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified (Not applicable)
Acute toxicity (dermal) : Not classified (Not applicable)
Acute toxicity (inhalation) : Not classified (Not applicable)
Skin corrosion/irritation : Not classified (Not applicable)
Serious eye damage/irritation : Not classified (Not applicable)

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Respiratory or skin sensitisation : Not classified (Not applicable)
Germ cell mutagenicity : Not classified (Not applicable)
Carcinogenicity : Not classified (Not applicable)
Reproductive toxicity : Not classified (Not applicable)
STOT-single exposure : Not classified (Not applicable)
STOT-repeated exposure : Not classified (Not applicable)
Aspiration hazard : Not classified (Not applicable)

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

acute)

Hazardous to the aquatic environment, long-term :

(chronic)

: Not classified

Not classified

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

# 12.7. Other adverse effects

Additional information : Avoid release to the environment

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW) code : 16 06 05 - other batteries and accumulators

#### **SECTION 14: Transport information**

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

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ADR	IMDG	IATA	ADN	RID			
14.1. UN number or ID number							
UN 3480	UN 3480	UN 3480 UN 3480		UN 3480			
14.2. UN proper shippin	14.2. UN proper shipping name						
LITHIUM ION BATTERIES	LITHIUM ION BATTERIES	Lithium ion batteries	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES			
Transport document descr	iption						
UN 3480 LITHIUM ION BATTERIES, 9, (E)	UN 3480 LITHIUM ION BATTERIES, 9	UN 3480 Lithium ion batteries, 9					
14.3. Transport hazard class(es)							
9	9	9	9	9			
14.4. Packing group							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.5. Environmental hazards							
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No			
No supplementary information	n available						

# 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : M4

Special provisions (ADR) : 230, 348, 376, 377

Limited quantities (ADR) : 0

Excepted quantities (ADR) : E0

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

: 2 Transport category (ADR) : E Tunnel restriction code (ADR)

# Transport by sea

Special provisions (IMDG) : 230, 348, 376, 377, 384

: 0 Limited quantities (IMDG) Excepted quantities (IMDG) : E0

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

EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-I Stowage category (IMDG) Stowage and handling (IMDG) : SW19 MFAG-No : 147

#### Air transport

PCA Excepted quantities (IATA) : E0 PCA Limited quantities (IATA) : Forbidden PCA limited quantity max net quantity (IATA) : Forbidden PCA packing instructions (IATA) : Forbidden PCA max net quantity (IATA) : Forbidden CAO packing instructions (IATA) : See 965 CAO max net quantity (IATA) : See 965

: A99, A154, A164, A183, A331, A334, A802 Special provisions (IATA)

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ERG code (IATA) : 12FZ

**Inland waterway transport** 

Classification code (ADN) : M4

Special provisions (ADN) : 230, 348, 376, 377

Limited quantities (ADN) : 0

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M4

Special provisions (RID) : 230, 348, \_376, 377

Limited quantities (RID) : 0
Excepted quantities (RID) : E0

Packing instructions (RID) : P903, 908, 909, P911, LP903, LP904, LP906

Transport category (RID) : 2
Hazard identification number (RID) : 90

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

Not applicable

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

### **REACH Annex XVII (Restriction List)**

Not applicable.

#### **REACH Annex XIV (Authorisation List)**

Not applicable.

# **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

# **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

# **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 SDS No: 11728-0001

# **SECTION 16: Other information**

Indication of changes					
Section	Changed item	Change	Comments		
1.1	Other means of identification	Modified			

Abbreviations and ac	ronyms:
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SDS No: 11728-0001

Abbreviations and acronyms:					
vPvB	Very Persistent and Very Bioaccumulative				
ED	Endocrine disrupting properties				
DOT	Department of Transport				
TDG	Transportation of Dangerous Goods				
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006				
GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals				
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk				
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008				
MARPOL 73/78	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships				
ADG	Transport of Australian Dangerous Goods				

#### Other information

: Note: This product is an "article" and is not an object that is required to issue Safety Data Sheets (SDS) by regulations concerning chemical substances. This SDS voluntarily offers helpful information for your safe handling and environmental care. Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations. Depending on the use case further UN numbers may be considered: UN 3171 BATTERY POWERED VEHICLE, UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT. The application of this UN numbers and compliance with the associated transport regulations is in the responsibility of the sender.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.

9/11/2023 (Revision date) EU - en 13/13