Cordless Working Flood Light | COB-LED | 5 W (BGS 85340)

Article number 85340

BGS technic KG

42929 Wermelskirchen



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

1.1 Product identifier

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

1.2.1 Relevant uses

See product information.

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company BGS technic KG

Bandwirkerstr. 3

42929 Wermelskirchen / GERMANY Phone +49 (0)2196 72048-0 Fax +49 (0)2196 72048-20 Homepage www.bgstechnic.com E-mail mail@bgs-technic.de

Address enquiries to

Technical information mail@bgs-technic.de

Safety Data Sheet 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)

Company +49 (0)2196 72048-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Sens. 1: H317 May cause an allergic skin reaction.

Skin Irrit. 2: H315 Causes skin irritation. Eye Irrit. 2: H319 Causes serious eye irritation.

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

Carc. 2: H351 Suspected of causing cancer.

2.2 Label elements

This product is an article and therefore it does not require labelling according to regulations

REACH/CLP.

2.3 Other hazards

Physico-chemical hazards When cell is exposed to an external short-circuit, it will cause heat generation and ignition.

The chemicals are contained within a sealed housing. There is only a risk of exposure if the

battery is subject to mechanical or electrical misuse.

Human health dangers Contains no ingredients with endocrine-disrupting properties.

Environmental hazardsDoes not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

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3.2 Mixtures

The product is an article.

Range [%]	Substance
25 - < 35	Lithium Nickel Manganese Cobalt Oxide
	CAS: 346417-97-8, EINECS/ELINCS: 620-032-4
	GHS/CLP: Skin Sens. 1: H317 - Carc. 2: H351
5 - < 10	Lithium Manganese (III,IV) oxide
	CAS: 12057-17-9, EINECS/ELINCS: 601-724-5
	GHS/CLP: Acute Tox. 4: H302 H332 - Aquatic Chronic 4: H413
1 - < 3	Lithium hexafluorophosphate
	CAS: 21324-40-3, EINECS/ELINCS: 244-334-7
	GHS/CLP: Acute Tox. 3: H301 - Skin Corr. 1A: H314 - Eye Dam. 1: H318 - STOT RE 1: H372
<1	Nickel
	CAS: 7440-02-0, EINECS/ELINCS: 231-111-4, EU-INDEX: 028-002-00-7
	GHS/CLP: Carc. 2: H351 - STOT RE 1: H372 - Skin Sens. 1: H317

Comment on component parts

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Measures are only needed for damaged cells.

Inhalation Remove the victim into fresh air and keep him calm.

In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contactRinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Consult a doctor immediately.

Rinse out mouth and give plenty of water to drink. Do not induce vomiting.

Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media All extinguishing media are suitable but method must take into account the surrounding area

to minimize dispersion.

Extinguishing media that must not

be used

Ingestion

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Bursting batteries can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Measures apply only to the damaged product. Use personal protective equipment (protective gloves).

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

The data of the manufacturer concerning the loading and unloading parameters and the recommended temperature ranges are to be considered.

Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Store in a dry place.

Protect from heat/overheating.

Storage: 20 - 30°C

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

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

Substance / EC LIMIT VALUES

Lithium hexafluorophosphate

CAS: 21324-40-3, EINECS/ELINCS: 244-334-7

Eight hours: 2,5 mg/m³, F

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8.2 **Exposure controls**

Additional advice on system design Measures apply only to the damaged product.

Ensure adequate ventilation on workstation.

safety glasses (EN 166:2001) Eye protection

0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3). Hand protection

Skin protection Protective clothing (EN 340)

Other Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Respiratory protection Short term: combination filter A-P3. (DIN EN 14387)

Thermal hazards

Delimitation and monitoring of the environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state solid **Form** Battery Color various Odor odourless Odour threshold not applicable not applicable pH-value pH-value [1%] not applicable Boiling point or initial boiling point

and boiling range [°C]

not applicable

Flash point [°C] not applicable Flammability not applicable Lower explosion limit not applicable **Upper explosion limit** not applicable

Oxidising properties

Vapour pressure/gas pressure [kPa] not applicable Density [g/cm³] not determined Relative density not determined Bulk density [kg/m³] not applicable Solubility in water not applicable

Solubility other solvents No information available.

Partition coefficient n-octanol/water

(log value)

not applicable

Kinematic viscosity not applicable Relative vapour density not applicable Melting point [°C] not determined Auto-ignition temperature [°C] not determined Decomposition temperature [°C] not determined Particle characteristics not applicable

Other information

8,14 Wh; 2200 mAh; 3,7 V

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

When cell is exposed to an external short-circuit, it will cause heat generation and ignition. Heating leads to a risk of bursting and of electrolyte fluid escaping. Avoid mechanical and electrical misuse.

10.4 Conditions to avoid

Heating > 80°C

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

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

Acute oral toxicity

Product

ATE-mix, oral, > 2000 mg/kg

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

LD50, oral, Rat, > 50 - 300 mg/kg (Lit.)

ATE, oral, 100 mg/kg (category 3)

Lithium Manganese (III,IV) oxide, CAS: 12057-17-9

ATE, oral, 500 mg/kg

Nickel, CAS: 7440-02-0

LD50, oral, Rat, > 9000 mg/kg (IUCLID)

Acute dermal toxicity

Product

dermal, Based on the available information, the classification criteria are not fulfilled.

Acute inhalational toxicity

Product

ATE-mix, inhalative, > 20 mg/L

Substance

Lithium Manganese (III,IV) oxide, CAS: 12057-17-9

ATE, inhalativ (dust), 1,5 mg/l, 4h

Serious eye damage/irritation Irritant

Based on the available information, the classification criteria are fulfilled.

Calculation method

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

Eye, Causes serious eye damage.

Skin corrosion/irritation Irritant

Based on the available information, the classification criteria are fulfilled.

Calculation method

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

dermal, corrosive

Respiratory or skin sensitisation May cause an allergic skin reaction.

Based on the available information, the classification criteria are fulfilled.

Calculation method

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

dermal, non-sensitizing

Nickel, CAS: 7440-02-0

dermal, sensitising

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Specific target organ toxicity —

single exposure

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure

May cause damage to organs through prolonged or repeated exposure. Based on the available information, the classification criteria are fulfilled.

Calculation method

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

NOAEL, oral, Human, 0,133 mg/kg bw/day, The effects observed are not sufficient for classification.

NOAEC, inhalative, Human, 2 mg/m³, The effects observed are not sufficient for classification.

MutagenicityBased on the available information, the classification criteria are not fulfilled.

Reproduction toxicityBased on the available information, the classification criteria are not fulfilled.

Carcinogenicity Suspected of causing cancer.

Based on the available information, the classification criteria are fulfilled.

Calculation method

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

Die Einstufung bezieht sich auf die Inhaltsstoffe, die bei normaler Verwendung des Produkts

nicht verfügbar sind.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

EC50, (48h), Daphnia magna, > 100 mg/l (Lit.)

EC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (Lit.)

EC50, (3h), Activated sludge, > 1000 mg/l (Lit.)

Nickel, CAS: 7440-02-0

LC50, (96h), Brachidanio rerio, > 100 mg/l (OECD 203)

EC50, (48h), Daphnia magna, > 100 mg/l (OECD 202)

EC50, (48h), Pseudomonas fluorescens, 250 mg/l (Lit.)

IC50, (72h), Selenastrum capricornutum, 100 mg/l (OECD 201)

12.2 Persistence and degradability

Behaviour in environment

Behaviour in sewage plant

No information available.

compartments

No information available.

Biological degradability not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

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12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment.

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

For recycling, consult manufacturer.

Waste no. (recommended)

200134

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150102

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to

ADR/RID

3481

3481

Inland navigation (ADN) 3481

Marine transport in accordance with

MDG

Air transport in accordance with IATA 3481

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14.2 UN proper shipping name

Transport by land according to

ADR/RID

Lithium Ion Batteries contained in equipment (Not subject of ADR in accordance to special provisions 188, Lithium-Ion-Batteries are tested according to 38.3 of the `UN Manual of Tests

and Criteria for compliance)

- Classification Code M4 - ADR LQ 0 kg

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN)

Lithium Ion Batteries contained in equipment (Not subject of ADR in accordance to special

provisions 188, Lithium-Ion-Batteries are tested according to 38.3 of the `UN Manual of Tests

and Criteria' for compliance)

- Classification Code M4

Marine transport in accordance with

IMDG

Lithium ion batteries contained in equipment (No dangerous goods, according IMDG Special

regulations 188)

- EMS F-A, S-I - IMDG LQ 0 I

Air transport in accordance with IATA Lithium Ion Batteries contained in equipment (PI 967 Part 1)

- Label

9

14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

Inland navigation (ADN)

Marine transport in accordance with

IMDG

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

not applicable

IMDG

Air transport in accordance with IATA II

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14.5 Environmental hazards

Transport by land according to

ADR/RID

no

no

Inland navigation (ADN)

Marine transport in accordance with

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

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 Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances \geq 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. 27, 75

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

any restrictions.

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

NATIONAL REGULATIONS (EU):

- Observe employment restrictions

for people

no

- VOC (2010/75/CE) not relevant

15.2 Chemical safety assessment

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H372 Causes damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H301 Toxic if swallowed.

H413 May cause long lasting harmful effects to aquatic life.

H302+H332 Harmful if swallowed or if inhaled.

H351 Suspected of causing cancer.

H317 May cause an allergic skin reaction.

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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

16.3 Other information

This document does not comply with Regulation (EC) No 1907/2006, article 31 (5) and may be used for internal purposes only.

Classification procedure Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

(Calculation method)

Carc. 2: H351 Suspected of causing cancer. (Calculation method)

Modified position none

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