# COB-LED / UV-Aluminium Handheld Lamp | 1 W (BGS Do it yourself 85349)

Article number 85349

**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

COB-LED / UV-Aluminium Handheld Lamp | 1 W (BGS Do it yourself

85349)

Article number: 85349

#### 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

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Address enquiries to

Technical informationmail@bgs-technic.deSafety Data Sheetsdb@chemiebuero.de

## 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]

Carc. 1B: H350 May cause cancer.

Acute Tox. 2: H330 Fatal if inhaled.

STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure if

inhaled.

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

# 2.2 Label elements

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

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.

Environmental hazards Does 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
30 - < 40	Lithium nickel cobalt manganese oxide
	CAS: 182442-95-1, EINECS/ELINCS: 695-690-9
	GHS/CLP: Acute Tox. 2: H330 - Carc. 1B: H350i - STOT RE 1: H372 - Aquatic Chronic 3: H412
5 - < 15	Copper
	CAS: 7440-50-8, EINECS/ELINCS: 231-159-6
	GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 3: H412, M-Factor (acute): 1
< 1	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

Comment on component parts

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

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

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

#### 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.

Immediate medical treatment necessary, as untreated burns can result in slow-healing

wounds.

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

> to do. Continue rinsing. Consult a doctor immediately.

Ingestion Consult a doctor immediately.

Do not induce vomiting.

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

Irritant effects

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

Treat symptomatically.

# SECTION 5: Fire-fighting measures

# **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

Full water jet

#### 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

Not required under normal conditions.

## 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.

# 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

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# SECTION 8: Exposure controls / personal protection

## 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance

Lithium hexafluorophosphate

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

Long-term exposure: 2,5 mg/m³, Fluoride (inorganic as F)

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES

Lithium hexafluorophosphate

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

Eight hours: 2,5 mg/m³, F

**DNEL** 

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

Industrial, dermal, Long-term - systemic effects, 0,133 mg/kg bw/day

Industrial, inhalative, Long-term - systemic effects, 0,931 mg/m<sup>3</sup>

# 8.2 Exposure controls

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

Ensure adequate ventilation on workstation.

Eye protection safety glasses (EN 166:2001)

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

**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** If workplace limit values are exceeded or if there is insufficient ventilation:

Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)

Thermal hazards none

Delimitation and monitoring of the

environmental exposition

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

emissions.

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# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Physical state Battery Color blue Odor odourless **Odour threshold** not applicable pH-value not applicable pH-value [1%] not applicable Boiling point [°C] not applicable Flash point [°C] not applicable Flammability (solid, gas) [°C] not applicable Lower explosion limit not applicable Upper explosion limit not applicable

Oxidising properties no

Vapour pressure/gas pressure [kPa]not applicableDensity [g/cm³]not determinedRelative densitynot determinedBulk density [kg/m³]not applicableSolubility in waternot applicable

Solubility other solvents No information available.

Partition coefficient [n-octanol/water] not applicable
Kinematic viscosity not applicable
Relative vapour density not applicable
Evaporation speed not applicable
Melting point [°C] not determined
Auto-ignition temperature not determined
Particle characteristics not applicable

# 9.2 Other information

3,7 V; 1200mA; 4,44 Wh

# 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

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# 10.5 Incompatible materials

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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

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

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

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

## Acute dermal toxicity

Acute inhalational toxicity

Product

ATE-mix, inhalative, 1,37 mg/L

Substance

Lithium nickel cobalt manganese oxide, CAS: 182442-95-1

LC50, inhalative, No information available.

Serious eye damage/irritation

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

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

IVIS, Eggs, 16 (20 sek.)

Skin corrosion/irritation

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

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

Mean Tissue Viability, dermal, Human, 6 %

Respiratory or skin sensitisation

Specific target organ toxicity —

single exposure

Specific target organ toxicity —

repeated exposure

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

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

Causes damage to organs through prolonged or repeated exposure if inhaled. 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

NOAEC, inhalative, Human, 2 mg/m<sup>3</sup>

Lithium nickel cobalt manganese oxide, CAS: 182442-95-1

No information available.

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

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

Carcinogenicity May cause cancer.

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

Calculation method

Substance

Lithium nickel cobalt manganese oxide, CAS: 182442-95-1

No information available.

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

**General remarks** 

Toxicological data of complete product are not available.

11.2 Information on other hazards

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

Other information none

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Substance

Lithium hexafluorophosphate, CAS: 21324-40-3

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

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

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

# 12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant No information available.

Biological degradability not applicable

# 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

#### 12.4 Mobility in soil

not determined

#### 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

None known.

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# **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

Inland navigation (ADN) 3481

Marine transport in accordance with

**IMDG** 

3481

Air transport in accordance with IATA 3481

## 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)

- 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)

- Classification Code M4

Marine transport in accordance with

**IMDG** 

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

provisions 188)

- EMS F-A, S-I

- Label

- IMDG LQ 01

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

- Label



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#### 14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

9

Inland navigation (ADN)

9

Marine transport in accordance with 9

**IMDG** 

Air transport in accordance with IATA 9

### 14.4 Packing group

Transport by land according to

Inland navigation (ADN)

not applicable

ADR/RID

not applicable

Marine transport in accordance with

**IMDG** 

Air transport in accordance with IATA II

#### 14.5 Environmental hazards

Transport by land according to

no

no

Inland navigation (ADN)

Marine transport in accordance with no

**IMDG** 

ADR/RID

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/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK

REACH; GB CLP.

- Observe employment restrictions

for people

none

- VOC (2010/75/CE) 0 %

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# 15.2 Chemical safety assessment

#### **SECTION 16: Other information**

## 16.1 Hazard statements (SECTION 3)

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H301 Toxic if swallowed. H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

H372 Causes damage to organs through prolonged or repeated exposure.

H350i May cause cancer by inhalation.

H330 Fatal if inhaled.

# 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

Classification procedure Carc. 1B: H350 May cause cancer. (Calculation method)

Acute Tox. 2: H330 Fatal if inhaled. (Calculation method)

STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure if

inhaled. (Calculation method)

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

**Modified position** 

none

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