

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

1.1 Product identifier

Multi-Function Jump Starter (BGS 3383)
Article number: 3383

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
Bandwinkerstr. 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

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]

Repr. 1B: H360FD May damage fertility. May damage the unborn child.
Carc. 2: H351 Suspected of causing cancer.
Lact.: H362 May cause harm to breast-fed children.
Skin Corr. 1A: H314 Causes severe skin burns and eye damage.
Eye Dam. 1: H318 Causes serious eye damage.
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Acute Tox. 4: H332 Harmful if inhaled.
Aquatic Acute 1: H400 Very toxic to aquatic life.

2.2 Label elements

This product is an article and therefore it does not require labelling according to directives UK REACH/GB 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

3.2 Mixtures

The product is an article.

Range [%]	Substance
30 - 40	Lead, massive (>=1mm)
	CAS: 7439-92-1, EINECS/ELINCS: 231-100-4, EU-INDEX: 082-014-00-7
	GHS/CLP: Repr. 1A: H360FD - Lact.: H362
30 - 40	Lead dioxide
	CAS: 1309-60-0, EINECS/ELINCS: 215-174-5, EU-INDEX: 082-001-00-6
	GHS/CLP: Repr. 1B: H360Df - Acute Tox. 4: H302 H332 - STOT RE 2: H373 - Aquatic Chronic 1: H410 - Aquatic Acute 1: H400, M-Factor (acute): 1, M-Factor (chronic): 1
	SCL [%]: >= 2,5: Repr. 2: H361f, >= 0,5: STOT RE 2: H373
5 - 10	Sulphuric acid
	CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8
	GHS/CLP: Skin Corr. 1A: H314 - Eye Dam. 1: H318 - Met. Corr. 1: H290
	SCL [%]: >= 15: Skin Corr. 1A: H314, 5 - <15: Eye Irrit. 2: H319, 5 - <15: Skin Irrit. 2: H315
1 - < 5	tetrabromobisphenol-A
	CAS: 79-94-7, EINECS/ELINCS: 201-236-9, EU-INDEX: 604-074-00-0
	GHS/CLP: Aquatic Chronic 1: H410
1 - < 3	Diantimony trioxide
	CAS: 1309-64-4, EINECS/ELINCS: 215-175-0, EU-INDEX: 051-005-00-X
	GHS/CLP: Carc. 2: H351
< 0,5	Barium
	CAS: 7440-39-3, EINECS/ELINCS: 231-149-1
	GHS/CLP: Flam. Sol. 1: H228 - Water-react. 1: H260 - Skin Corr. 1: H314 - Eye Dam. 1: H318 - Acute Tox. 3: H301

Comment on component parts

The contained dangerous materials are not freely available with foreseeable use.
 SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0.1%
 CAS 7439-92-1 - Lead, massive (>=1mm)
 For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Measures apply only to the damaged product.
Inhalation	not applicable
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	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

Product is caustic.

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 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 with the local regulations.

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

Measures apply only to the damaged product.
Take up with absorbent material (e.g. acid binder).
Dispose of absorbed material in accordance with 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

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Sulphuric acid
CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8
Long-term exposure: 0,05 mg/m ³ , mist; The mist is defined as the thoracic fraction
Lead, massive (>=1mm)
CAS: 7439-92-1, EINECS/ELINCS: 231-100-4, EU-INDEX: 082-014-00-7
Long-term exposure: 0,15 mg/m ³
Lead dioxide
CAS: 1309-60-0, EINECS/ELINCS: 215-174-5, EU-INDEX: 082-001-00-6
Long-term exposure: 0,15 mg/m ³ , as Pb
Diantimony trioxide
CAS: 1309-64-4, EINECS/ELINCS: 215-175-0, EU-INDEX: 051-005-00-X
Long-term exposure: 0,5 mg/m ³ , as Sb
Barium
CAS: 7440-39-3, EINECS/ELINCS: 231-149-1
Long-term exposure: 0,5 mg/m ³ , EH40/2005

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Sulphuric acid
CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8
Eight hours: 0,05 mg/m ³ , thoracic fraction
Lead dioxide
CAS: 1309-60-0, EINECS/ELINCS: 215-174-5, EU-INDEX: 082-001-00-6
Eight hours: 0,15 mg/m ³ , as Pb
Barium
CAS: 7440-39-3, EINECS/ELINCS: 231-149-1
Eight hours: 0,5 mg/m ³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Measures apply only to the damaged product. safety glasses (EN 166:2001)
Hand protection	Measures apply only to the damaged product. 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	No special measures necessary.
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Battery
Color	black
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 applicable
Density [g/cm ³]	not determined
Relative density	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	not 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
Decomposition temperature [°C]	not determined
Particle characteristics	not applicable

9.2 Other information

13.5-12.8 V

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

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Hydrogen.

SECTION 11: Toxicological information

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

Acute oral toxicity

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
Diantimony trioxide, CAS: 1309-64-4
LD50, oral, Rat, > 34600 mg/kg bw (IUCLID)
Lead dioxide, CAS: 1309-60-0
LD50, oral, Rat, > 2000 mg/kg
Sulphuric acid, CAS: 7664-93-9
LD50, oral, Rat, 2140 mg/kg
Lead, massive (>=1mm), CAS: 7439-92-1
LD50, oral, Rat, > 2000 mg/kg
Barium, CAS: 7440-39-3
LD50, oral, Rat, ≤ 100 - ≥ 300 mg/kg

Acute dermal toxicity

Substance
Lead, massive (>=1mm), CAS: 7439-92-1
LD50, dermal, Rat, > 2000 mg/kg
Barium, CAS: 7440-39-3
LD50, dermal, Rat, > 2000 mg/kg

Acute inhalational toxicity

Product
ATE-mix, inhalativ (dust), 4 mg/L
Substance
Sulphuric acid, CAS: 7664-93-9
LC50, inhalative, Rat, 0,375 mg/l (OECD TG 403 aerosols)
Lead, massive (>=1mm), CAS: 7439-92-1
LC50, inhalative, Rat, > 5 mg/L (4h)
Barium, CAS: 7440-39-3
LC50, inhalative, Rat, > 1 mg/L

Serious eye damage/irritation

Risk of serious damage to eyes.
Expert judgement

Substance
Sulphuric acid, CAS: 7664-93-9
corrosive
Lead, massive (>=1mm), CAS: 7439-92-1
Eye, non-irritating

Skin corrosion/irritation

Product is caustic.
Expert judgement

Substance

Sulphuric acid, CAS: 7664-93-9

corrosive

Lead, massive (≥ 1 mm), CAS: 7439-92-1

dermal, non-irritating

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance

Sulphuric acid, CAS: 7664-93-9

no adverse effect observed

Lead, massive (≥ 1 mm), CAS: 7439-92-1

dermal, non-sensitizing

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

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

Reproduction toxicity May damage fertility.
May damage the unborn child.
May cause harm to breast-fed children.
Based on the available information, the classification criteria are fulfilled.
Calculation method

Substance

Lead, massive (≥ 1 mm), CAS: 7439-92-1

adverse effect observed

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.

11.2 Information on other hazards

Endocrine disrupting properties Under evaluation (ECHA, Endocrine disruptor assessment list): Tetrabrombisphenol-A (CAS 79-94-7)

Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance
Diantimony trioxide, CAS: 1309-64-4
LC50, (96h), Danio rerio, > 1000 mg/l (OECD 203)
EC50, (48h), Daphnia magna, > 1000 mg/l (OECD 202)
IC50, (72h), Pseudokirchneriella subcapitata, 67 mg/l (OECD 201)
EC10, Pseudomonas putida, > 3,5 mg/l (7 h) (IUCLID)
Sulphuric acid, CAS: 7664-93-9
LC50, (48h), Brachidanio rerio, > 500 mg/l (Lit.)
LC50, (96h), Lepomis macrochirus, 16-29 mg/l
EC50, (24h), Daphnia magna, 29 mg/l
LC0, (96h), Carassius auratus, 134 mg/l (Lit.)
tetrabromobisphenol-A, CAS: 79-94-7
LC50, (96h), Pimephales promelas, 0,06 mg/l
EC50, (48h), Daphnia magna, 7,9 mg/l
Barium, CAS: 7440-39-3
EC50, (48h), Daphnia magna, 14,5 mg Ba(2+)/L

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	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.

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

Under evaluation (ECHA, Endocrine disruptor assessment list): Tetrabrombisphenol-A (CAS 79-94-7)

12.7 Other adverse effects

None known.

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 2794

Inland navigation (ADN) 2794

Marine transport in accordance with IMDG 2794

Air transport in accordance with IATA 2794

14.2 UN proper shipping name

Transport by land according to ADR/RID Batterien (Akkumulatoren), nass, gefüllt mit Säure, Kein Gefahrgut laut Sondervorschriften 295 und 598

- Classification Code C11

- ADR LQ 1 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN) Batterien (Akkumulatoren), nass, gefüllt mit Säure, Kein Gefahrgut laut Sondervorschriften 295 und 598

- Classification Code C11

Marine transport in accordance with IMDG Batteries, wet, filled with acid

- EMS F-A, S-B

- Label



- IMDG LQ 1 I

Air transport in accordance with IATA Batteries, wet, filled with acid

- Label



14.3 Transport hazard class(es)

Transport by land according to ADR/RID 8

Inland navigation (ADN) 8

Marine transport in accordance with IMDG 8

Air transport in accordance with IATA 8

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 yes

Inland navigation (ADN) yes

Marine transport in accordance with IMDG MARINE POLLUTANT

Air transport in accordance with IATA yes

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 (2021)

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) not applicable

15.2 Chemical safety assessment

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H301 Toxic if swallowed.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H228 Flammable solid.
H351 Suspected of causing cancer.
H290 May be corrosive to metals.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.

H362 May cause harm to breast-fed children.
H360FD May damage fertility. May damage the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H373 May cause damage to organs through prolonged or repeated exposure.
H302+H332 Harmful if swallowed or if inhaled.
H360Df May damage the unborn child. Suspected of damaging fertility.

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

Repr. 1B: H360FD May damage fertility. May damage the unborn child. (Calculation method)
Carc. 2: H351 Suspected of causing cancer. (Calculation method)
Lact.: H362 May cause harm to breast-fed children. (Calculation method)
Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (Calculation method)
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
Acute Tox. 4: H332 Harmful if inhaled. (Calculation method)
Aquatic Acute 1: H400 Very toxic to aquatic life. (Calculation method)

Modified position

none



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