

Product Safety Information Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis Issue date: 3/14/2025 Version: 1.0

SECTION 1 Identification	
1.1. Product identifier	
Product form Name	: Article : BSLi & BSLi Max Range - Lithium-Iron Phosphate (LiFePO4)
1.2. Other means of identification	
No additional information available	
1.3. Recommended use of the chemical an	restrictions on use
Use of the substance/mixture	: Battery
1.4. Supplier's details	
Supplier BS BATTERY 30 Rue Pasteur Suresnes, 92150 France T +33 1 83 62 45 55 contact@bs-battery.com	Importer BS Battery USA Inc 6950 Bryan Dairy Road Suite A Largo, Florida 33777 United States T 727-201-5409 (ext. 101) <u>contact@bs-battery.com</u>
1.5. Emergency phone number	
Emergency number SECTION 2 Hazard identification	: 727-201-5409 from 8:30 AM to 5:00 PM, Monday to Friday
2.1. Classification of the substance or mix	ure
GHS-US classification	
Acute toxicity (oral), Category 3 Skin corrosion/irritation, Category 1A Serious eye damage/eye irritation, Category 1 Specific target organ toxicity — Repeated exposure Full text of H-statements: see section 16	H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. Category 1 H372 Causes damage to organs through prolonged or repeated exposure.
2.2. Label elements	
No labelling obligation.	
2.3. Hazards associated with known or rea	onably anticipated uses
No additional information available	
2.4. Hazards not otherwise classified	
Other hazards which do not result in classification	: None known.
2.5. Unknown acute toxicity	
No additional information available	

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SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Lithium Hexafluorophosphate	CAS-No.: 21324-40-3	15 – 25	Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT RE 1, H372
Graphite	CAS-No.: 7782-42-5	15 – 25	Comb. Dust
Copper	CAS-No.: 7440-50-8	15 – 25	Acute Tox. 4 (Oral), H302
Aluminium	CAS-No.: 7429-90-5	5 – 10	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures		
First-aid measures after inhalation	: In the event of contact with the contents of a damaged battery. Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.	
First-aid measures after skin contact	: In the event of contact with the contents of a damaged battery. Remove contaminated clothes. Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse. Get immediate medical advice/attention.	
First-aid measures after eye contact	 In the event of contact with the contents of a damaged battery. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact ophthalmologist immediately. 	
First-aid measures after ingestion	 In the event of contact with the contents of a damaged battery. Do not induce vomiting. Rinse mouth out with water (only if the person is conscious). Get immediate medical advice/attention. 	
4.2. Most important symptoms/effects, ac	cute and delayed	
Potential adverse human health effects and symptoms	: Cells are hermetically closed articles which do not present a risk provided they are used in accordance with the manufacturer's instructions.	
Symptoms/effects after inhalation	: In case of contact with a mixture contained in the article: Giddiness. Irritation to throat and respiratory system. non exhaustive list.	
Symptoms/effects after skin contact	: In case of contact with a mixture contained in the article: Burns. non exhaustive list.	
Symptoms/effects after eye contact	: In case of contact with a mixture contained in the article: Causes serious eye damage. non exhaustive list.	
Symptoms/effects after ingestion	: In case of contact with a mixture contained in the article: Burns to mouth, oesophagus and gastrointestinal tract. Toxicity hazard. non exhaustive list.	
4.3. Indication of immediate medical atten	ntion and special treatment needed, if necessary	
Other medical advice or treatment	: Treat symptomatically.	

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	media	
Suitable extinguishing media	: Dry chemical powder. Foam. Carbon dioxide (CO2).	

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SECTION 6 Accidental release measures

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5.2. Specific hazards arising from the chemical		
Fire hazard Hazardous decomposition products in case of fire	 During combustion : Toxic and corrosive vapours are released. Toxic fumes are released. Metallic oxides. Aluminium oxides. Lithium Oxide. Cupric oxide. Phosphorous oxide. 	
5.3. Special protective equipment and precautions for fire-fighters		
Firefighting instructions	: Evacuate the danger area. Cool down the containers exposed to heat with a water spray. Contain the extinguishing fluids by bunding.	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION V Accidental release measur	6 5	
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Ventilate spillage area.	
For non-emergency personnel		
Protective equipment	: Do not attempt to take action without suitable protective equipment. Avoid contact with skin and eyes.	
Emergency procedures	: Mark the danger area. In case of liquid leak : Avoid contact with skin and eyes. Do not breathe dust.	
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".	
Environmental precautions	: Contain the spilled material by bunding.	
6.2. Methods and materials for containmer	nt and cleaning up	
For containment Methods for cleaning up Other information	 Shovel into suitable and closed container for disposal. Vacuum up the product. Recycle or dispose of in compliance with current legislation. 	

For further information refer to section 8: "Exposure controls/personal protection", For waste disposal after cleaning, see section 13

SECTION 7 Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Do not drink, eat or smoke in the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 	
7.2. Conditions for safe storage, including incompatibilities		
Storage conditions Incompatible materials Information on mixed storage Storage temperature Heat and ignition sources Packaging materials	 Store in dry, cool, well-ventilated area. Keep container dry. Water. Strong acids. Oxidation agents. Keep away from food, drink and animal feeding stuffs. -20 - 35 °C Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep away from heat and direct sunlight. Store in original container. 	

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SECTION 8 Exposure controls/personal protection

8.1. Control parameters

8.1. Control parameters		
Aluminium (7429-90-5)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Aluminum metal and insoluble compounds	
ACGIH OEL TWA	1 mg/m ³ (R - Respirable particulate matter)	
Remark (ACGIH)	TLV® Basis: Pneumoconiosis; LRT irr; neurotoxicity. Notations: A4 (Not classifiable as a Human Carcinogen)	
Regulatory reference	ACGIH 2024	
USA - OSHA - Occupational Exposure Limits		
Local name	Aluminum Metal (as Al)	
OSHA PEL TWA	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Copper (7440-50-8)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Copper, as Cu	
ACGIH OEL TWA	0.2 mg/m³ (Fume) 1 mg/m³ (Dusts and mists)	
Remark (ACGIH)	TLV® Basis: Irr; GI; metal fume fever	
Regulatory reference	ACGIH 2024	
USA - OSHA - Occupational Exposure Limits		
Local name	Copper	
OSHA PEL TWA	0.1 mg/m³ (Fume (as Cu)) 1 mg/m³ (Dusts and mists (as Cu))	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	1 mg/m³ Copper (dusts and mists), as Cu 0.1 mg/m³ (fume)	
Graphite (7782-42-5)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Graphite (all forms excepte graphite fibers)	
ACGIH OEL TWA	2 mg/m ³ (R - Respirable particulate matter)	
Remark (ACGIH)	TLV® Basis: Pneumoconiosis	
Regulatory reference	ACGIH 2024	
USA - OSHA - Occupational Exposure Limits		
Local name	Graphite (Natural)	
OSHA PEL TWA	15 mppcf	
Remark (OSHA)	Table Z-3. CAS No. source: eCFR Table Z-1.	

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Graphite (7782-42-5)		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts	
8.2. Appropriate engineering contro	Is	
Appropriate engineering controls	: Ensure that there is a suitable ventilation system.	
8.3. Individual protection measures,	such as personal protective equipment	
Hand protection:		
Not required for normal conditions of use. In the event of contact with the contents of a damaged battery. Protective gloves. Breakthrough time : refer to the recommendations of the supplier		
Eye protection:		
Not required for normal conditions of use. If there is a risk of liquid being splashed : Safety spectacles with side shields		
Skin and body protection:		
Not required for normal conditions of use. In the event of contact with the contents of a damaged battery. Wear suitable protective clothing		
Respiratory protection:		
Not required for normal conditions of use. If dust are formed : Dust mask		

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: 10 mm Hg (at 20 °C)
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

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SECTION 10 Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

None to our knowledge.

10.4. Conditions to avoid

High temperature. Direct sunlight. Protect from moisture. Avoid shock and friction.

10.5. Incompatible materials

Water. Strong acids. Oxidation agents.

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 toxicological effects		
Acute toxicity (oral) :	Not subject	
Acute toxicity (dermal) :	Not subject	
Acute toxicity (inhalation) :	Not subject	
BSLi & BSLi Max Range - Lithium-Iron Phosphate (LiFePO4)		
ATE US (oral)	277.624 mg/kg bodyweight	
Lithium Hexafluorophosphate (21324-40-3)		
LD50 oral rat	50 – 300 mg/kg (OECD 423 method)	
Skin corrosion/irritation :	Not subject	
Serious eye damage/irritation :	Not subject	
Respiratory or skin sensitisation :	Not subject	
Germ cell mutagenicity :	Not subject	
Carcinogenicity :	Not subject	
Reproductive toxicity :	Not subject	
STOT-single exposure :	Not subject	
STOT-repeated exposure :	Not subject	
Aspiration hazard :	Not subject	
BSLi & BSLi Max Range - Lithium-Iron Phosphate (LiFePO4)		
Viscosity, kinematic	No data available	
Potential adverse human health effects and :	Cells are hermetically closed articles which do not present a risk provided they are used in	
symptoms	accordance with the manufacturer's instructions.	
Symptoms/effects after inhalation :	In case of contact with a mixture contained in the article: Giddiness. Irritation to throat and	
	respiratory system. non exhaustive list.	

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Symptoms/effects after skin contact Symptoms/effects after eye contact	 In case of contact with a mixture contained in the article: Burns. non exhaustive list. In case of contact with a mixture contained in the article: Causes serious eye damage. non exhaustive list.
Symptoms/effects after ingestion	: In case of contact with a mixture contained in the article: Burns to mouth, oesophagus and gastrointestinal tract. Toxicity hazard. non exhaustive list.

SECTION 12 Ecological information		
12.1. Ecotoxicity		
(acute)	: Not subject : Not subject	
Lithium Hexafluorophosphate (21324-40-3)		
EC50 Daphnia	> 100 mg/l/48 h (OECD 202 method)	
ErC50 algae	> 100 mg/l/96h (OECD 201 method)	
Graphite		
LC50 fish	> 100 mg/l/96h (Danio rerio) (OECD 203 method)	
EC50 Daphnia	> 100 mg/l/48 h (Daphnia magna)(OECD 202 method)	
ErC50 algae	> 100 mg/l/72 h (Pseudokirchneriella subcapitata)(OECD 201 method)	
NOEC chronic algae	≥ 100 mg/l/72 h (Pseudokirchneriella subcapitata)(OECD 201 method)	
12.2. Persistence and degradability		
BSLi & BSLi Max Range - Lithium-Iron Phos	phate (LiFePO4)	
Persistence and degradability	Not rapidly degradable	
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		
	: Not classified : No	
SECTION 13 Disposal considerations		
	 Dispose of in accordance with relevant local regulations. The user's attention is drawn to the possible existence of specific european, national or local 	

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

regulations regarding disposal.

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DOT	IMDG	ΙΑΤΑ	
14.1. UN number		·	
UN3480	3480	3480	
14.2. Proper Shipping Name			
Lithium ion batteries	LITHIUM ION BATTERIES (Lithium Hexafluorophosphate)	Lithium ion batteries (Lithium Hexafluorophosphate)	
14.3. Transport hazard class(es)			
9	9	9	
14.4. Packing group	~ ~		
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	
14.7. Special precautions for user			
UN-No. (DOT) DOT Special Provisions (49 CFR 172.102) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49	 UN3480 388 - a. Lithium batteries containing both primary lithium metal cells and rechargeable lithium ior cells that are not designed to be externally charged, must meet the following conditions: i. The rechargeable lithium ion cells can only be charged from the primary lithium metal cells 422 - When labelling is required, the label to be used must be the label shown in §172.447. Labels conforming to requirements in place on December 31, 2016 may continue to be used unt December 31, 2018. When a placard is displayed, the placard must be the placard shown in §172.560. A54 - Lithium batteries or lithium batteries contained or packed with equipment that exceed the maximum gross weight allowed by Column (9B) of the 172.101 Table may only be transported on cargo aircraft if approved by the Associate Administrator. A100 - Primary (non-rechargeable) lithium batteries and cells are forbidden for transport aboard passenger carrying aircraft in packages that do not exceed a gross weight of 5 kg. 185 185 Forbidden 		
CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	 35 kg A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. 		
DOT Vessel Stowage Location			
IMDG Special provisions (IMDG) Limited quantities (IMDG)	: 188, 230, 310, 348, 376, 377, 384, 387 : 0		

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Excepted quantities (IMDG) Packing instructions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Stowage and handling (IMDG)	 E0 P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-I - SPILLAGE SCHEDULE India - FLAMMABLE SOLIDS (REPACKING POSSIBLE) A SW19
ΙΑΤΑ	
Special provisions (IATA)	: A88, A99, A154, A183, A201, A213, A331, A334, A802
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
ERG code (IATA)	: 12FZ

SECTION 15 Regulatory information

15.1. Federal regulations

BSLi & BSLi Max Range - Lithium-Iron Phosphate (LiFePO4)				
Subject to reporting requirements of United States SARA Section 313				
SARA Section 311/312 Hazard Classes	Health hazard - Skin corrosion or Irritation Health hazard - Acute toxicity (any route of exposure) Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Carcinogenicity Health hazard - Reproductive toxicity			
Commercial status of components according to the Unit	ed States Environmental F	<u> </u>	Toxic Substances Con	trol Act (TSCA):
Name	CAS-No.	Listing	Commercial status	Flags
Aluminium	7429-90-5	Present	Active	
Copper	7440-50-8	Present	Active	
Lithium Hexafluorophosphate	21324-40-3	Present	Active	PMN
Graphite	7782-42-5	Present	Active	
Aluminium (7429-90-5)				
Subject to reporting requirements of United States SARA Section 313				

Copper (7440-50-8)		
Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	5000 lb	
L		

Lithium Hexafluorophosphate (21324-40-3)

Not subject to reporting requirements of the United States SARA Section 313

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Graphite (7782-42-5)

Not subject to reporting requirements of the United States SARA Section 313

15.2. International regulations

CANADA

Aluminium (7429-90-5)

Listed on the Canadian DSL (Domestic Substances List)

Copper (7440-50-8)

Listed on the Canadian DSL (Domestic Substances List)

Lithium Hexafluorophosphate (21324-40-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Copper (7440-50-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Graphite (7782-42-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

BSLi & BSLi Max Range - Lithium-Iron Phosphate (LiFePO4)

Except 1 substance, all chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

Except 2 substances, all chemical substances in this product are listed on the Canadian DSL (Domestic Sustances List)

Aluminium (7429-90-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Copper (7440-50-8)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on Turkish inventory of chemical

Graphite (7782-42-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Aluminium(7429-90-5)	U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Copper(7440-50-8)	U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Graphite(7782-42-5)	U.S Pennsylvania - RTK (Right to Know) List

SECTION 16 Other Information

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 Issue date
 : 3/14/2025

 Data sources
 : ECHA (European Chemicals Agency).

Full text of hazard classes and H-statements	
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H372	Causes damage to organs through prolonged or repeated exposure

Abbreviations and acronyms	
IMDG	International Maritime Dangerous Goods
ΙΑΤΑ	International Air Transport Association
LD50	Median lethal dose
EC50	Median effective concentration
NOEC	No-Observed Effect Concentration
LC50	Median lethal concentration
ATE	Acute Toxicity Estimate

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 not therefore be construed as guaranteeing any specific property of the product.