SAFETY DATA SHEET

STEALTH B-52

Infosafe No.: LQA98
ISSUED Date : 30/06/2020
ISSUED by: Stealth Electric Bikes Pty Ltd

1. IDENTIFICATION

GHS Product Identifier
STEALTH B-52

Company Name
Stealth Electric Bikes Pty Ltd (ABN 24 146 963 055)

Address
2 / 800 Princes Highway, Springvale
VIC AUSTRALIA

Telephone/Fax Number
Tel: 03 9574 0257

Emergency phone number
1800 033 111

Recommended use of the chemical and restrictions on use
Scooter and Ebike with lithium ion batteries installed.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
Classified as Dangerous Goods according to International Maritime Dangerous Goods Code (IMDG) and International Air Transport Association (IATA).

Other Information
The information in this safety data sheet is refer to lithium ion batteries. Information in section 14 is regarding the Ebike which has lithium ion batteries installed.
Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition, information on ingredients
Lithium ion batteries composition are shown below.

Ingredients

Name	CAS	Proportion
Cobaltate (CoO21-), lithium	12190-79-3	30-40 %
Carbon	7440-44-0	10-20 %
Aluminium	7429-90-5	1-10 %
Copper	7440-50-8	1-10 %
Phosphate(1-), hexafluoro-, lithium	21324-40-3	1-10 %
Ethylene carbonate	96-49-1	1-10 %
Dimethyl carbonate	616-38-6	1-10 %
Ethyl methyl carbonate	623-53-0	1-10 %

4. FIRST-AID MEASURES

Inhalation
Not considered a potential route of exposure for intact product, when used as intended. However, if the battery sealed unit is damaged and if inhaled, remove affected person from contaminated area immediately . Seek medical attention.

Ingestion
Not considered a potential route of exposure for intact product, when used as intended. However, if the battery sealed unit is damaged and exposure occurs, do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin
Not considered a potential route of exposure for intact product, when used as intended. However, if the battery sealed unit is damaged and exposure occurs, wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact
Not considered a potential route of exposure for intact product, when used as intended. However, if the battery sealed unit is damaged and and exposure occurs,hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

First Aid Facilities
Eyewash and normal washroom facilities.

Advice to Doctor
Treat symptomatically.

Other Information
For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use appropriate fire extinguisher for surrounding environment.

Unsuitable Extinguishing Media
Do not use water jet.

Hazards from Combustion Products
Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, oxides of lithium, cobalt, phosphorous, fluoride, copper and aluminium.

Specific Hazards Arising From The Chemical
Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150 °C), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in close proximity.

Decomposition Temperature
Not available

Precautions in connection with Fire
Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures
Lithium ion batteries: In case of leakage, wear appropriate personal protective equipment and clothing to prevent exposure. Collect the material and place into a suitable labelled container. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Lithium ion batteries: Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Do not open, dissemble, crush or burn battery. If battery case is damaged, avoid bodily contact with internal components. Do not allow metallic articles to simultaneously contact the negative and positive terminals of a battery. Only insulated tools should be used. Workers must not wear items of jewellery (e.g. watches, rings) as they may short out the terminals. Do not smoke, carry out hot work (e.g. welding, brazing, grinding), or use a mobile phone in the charging area. Ground containers when transferring liquid to prevent static accumulation and discharge.
Information about fire and explosion protection: Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

Conditions for safe storage, including any incompatibilities
Lithium ion batteries: Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight. Batteries must be kept in an upright position. Stack batteries so as to prevent accidental contact between terminals and/or other damage to terminals or containers. Do not allow conductive material to touch battery terminals. When batteries are stacked or palletised, cardboards must be placed between layers of stacked batteries to avoid damage and short circuits. Do not allow batteries to freeze. Elevated temperatures can result in shortened battery life. Protect against physical damage. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values
No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:
Cobalt, metal dust & fume (as Co)
TWA: 0.05 mg/m³
NOTE: Sen

Copper dust and mist (as Cu)
TWA: 1 mg/m³

Fluorides (as F)
TWA: 2.5 mg/m³

Aluminium metal dust (as Al)
TWA: 10 mg/m³

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.
'Sen' Notice: The substance may cause sensitization by skin contact or by inhalation.
Source: Safe Work Australia

Biological Limit Values
Name: FLUORIDES

Specimen: Fluoride in urine
Value: 2 mg/L
Sampling time: Prior to shift

Name: FLUORIDES
Specimen: Fluoride in urine
Value: 3 mg/L
Sampling time: End of shift

Cobalt and inorganic compounds
Specimen: Cobalt in urine
Value: 15 microg/L
Sampling time: End of shift at end of workweek
Source: American Conference of Industrial Hygienists (ACGIH).

Appropriate Engineering Controls
None required, when used as intended. Where exposure to battery content is possible: Use with good general ventilation. If dusts, mists or vapours are produced, local exhaust ventilation should be used.

Respiratory Protection
None required, when used as intended. When handling damaged product, if engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist/dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715 (2009), Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 (2012), Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection
None required, when used as intended. When handling damaged product, safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 2 & 6 (2012) - Eye Protectors for Industrial Applications.

Hand Protection
None required, when used as intended. Safety gloves are recommended when dealing with a damaged battery. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 (2016): Occupational protective gloves - Selection, use and maintenance.

Body Protection
Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Article	**Appearance**	E-bike with lithium ion batteries installed
Colour	Blue (lithium ion batteries)	**Odour**	Odourless
Decomposition Temperature	Not available	**Melting Point**	Not available
Boiling Point	Not available	**Solubility in Water**	Not available
Specific Gravity	Not available	**pH**	Not available
Vapour Pressure	Not available	**Vapour Density (Air=1)**	Not available
Evaporation Rate	Not available	**Odour Threshold**	Not available
Viscosity	Not available	**Partition Coefficient: n-octanol/water**	Not available
Flash Point	Not available	**Flammability**	Not available
Auto-Ignition Temperature	Not available	**Explosion Limit - Upper**	Not available
Explosion Limit - Lower	Not available		

Other Information
Electrical properties information for lithium ion batteries
Voltage: 92 V
Cell Voltage: 3.7 V
Electric capacity: 24000 mAh
Watt-hour: 2000 Wh

10. STABILITY AND REACTIVITY

Reactivity
Not available

Chemical Stability
Stable under normal conditions of storage and handling.

Conditions to Avoid
Flames, sparks, heat, sources of ignition. Avoid overcharging, exposure to moist air or water and mechanical and electrical abuse. Use only approved charging methods. Do not open, break or melt the casing.

Incompatible materials
Oxidizing agents, acid, base.

Hazardous Decomposition Products
Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, oxides of lithium, cobalt, phosphorous, fluoride, copper and aluminium.

Possibility of hazardous reactions
Reacts with incompatibles.

11. TOXICOLOGICAL INFORMATION

Toxicology Information
No toxicity data available for this product.

Ingestion
Unlikely due to form of product. Exposure to battery contents: Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation
Unlikely due to form of product. Exposure to battery contents: Inhalation of dusts/mists may irritate the respiratory system.

Skin
Unlikely due to form of product. Exposure to battery contents: May be irritating to skin. The symptoms may include redness, itching and swelling.

Eye
Unlikely due to form of product. Exposure to battery contents: May be irritating to eyes. The symptoms may include redness, itching and tearing.

Respiratory sensitisation
Not expected to be a respiratory sensitiser.

Skin Sensitisation
Not expected to be a skin sensitiser.

Germ cell mutagenicity
Not considered to be a mutagenic hazard.

Carcinogenicity
Not considered to be a carcinogenic hazard.
Cobalt and cobalt compounds is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).

Reproductive Toxicity
Not considered to be toxic to reproduction.

STOT-single exposure
Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure
Not expected to cause toxicity to a specific target organ.

Aspiration Hazard
Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No ecological data available for this material.

Persistence and degradability
Not available

Mobility
Not available

Bioaccumulative Potential
Not available

Other Adverse Effects
Not available

Environmental Protection
Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations
Return whole scrap batteries to the distributor, manufacturer or a licensed battery recycler. Do not incinerate. Battery recycling personnel should carefully follow established employer protocols when processing batteries and battery components.

14. TRANSPORT INFORMATION

Transport Information
Road and Rail Transport (ADG):

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Marine Transport (IMO/IMDG):
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
UN No: 3171
Proper Shipping Name: BATTERY-POWERED VEHICLE
DG Class: 9
Packaging Group: -
EMS No.: F-A, S-I
Special Provisions: 388, 961, 962, 971

Air Transport (ICAO/IATA):
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
UN No: 3171
Proper Shipping Name: Battery-powered vehicle
Class: 9
Packing Group: -
Packing Instruction: 952 (For passenger and cargo aircraft)
Packing Instruction: 952 (For cargo aircraft only)
Hazard Label: Miscellaneous
Special Provisions: A67, A87, A94, A164, A214

U.N. Number
None Allocated

UN proper shipping name
None Allocated

Transport hazard class(es)
None Allocated

IMDG Marine pollutant
No

Transport in Bulk
Not available

Special Precautions for User
Not available

15. REGULATORY INFORMATION

Regulatory information
Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). (exempted)

Poisons Schedule
Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of SDS
SDS Created: June 2020

References
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Workplace exposure standards for airborne contaminants.
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of Classification and Labelling of Chemicals.
Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

END OF SDS