

StellarVolt™ Lithium-Ion Battery

Material Safety Data Sheet

PRODUCT INFORMATION	
Name of Product:	StellarVolt™ Lithium-Ion Battery
Type/Model:	BTR015BKF18
Rating:	51.2V, 105Ah, 5376Wh

HAZARDS IDENTIFICATION	
Explosive Risk:	This battery doesn't belong to the explosion dangerous goods category.
Flammable Risk:	This battery doesn't belong to the flammable material category.
Oxidation Risk:	This battery doesn't belong to the oxidation of dangerous goods category.
Toxic Risk:	This battery doesn't belong to the toxic dangerous material category.
Radioactive Risk:	This battery doesn't belong to the radioactive dangerous material category.
Mordant Risk:	This battery doesn't belong to the corrosion dangerous material category.
Other Risk:	Watt hour rate 5376wh, which belongs to class 9 of the dangerous category.

FIRE-FIGHTING MEASURES	
Flash Point:	N/A
Auto-Ignition Temperature:	N/A
Extinguishing Media:	Water, CO2
Special Fire Fighting Procedures:	Self-contained breathing apparatus
Unusual Fire and Explosion Hazard:	Cell may vent when subjected to excessive heat
Hazardous Combustion Products:	Carbon Monoxide, Carbon Dioxide, Lithium Oxide Fumes

ACCIDENTAL RELEASE MEASURES	
Steps to be taken in case material is released or spilled:	If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth and dispose of it in a plastic bag and put into a steel can. The recommended response is to leave the area and allow the battery to cool and vapors to dissipate. Avoid skin contact, eye contact, and inhalation of vapors. Remove spilled liquid with absorbent cloth and incinerate.
Waste Disposal Method:	It is recommended to drain the battery until completely depleted, and disposing of the battery in accordance with approved local, state, and federal requirements. Consult state environmental protection agency and/or federal EPA.

HANDLING & STORAGE	
Do not:	Do not open, destroy or incinerate the battery, since it may leak or rupture and release to the environment the ingredients contained in the hermetically sealed container. Do not short circuit terminals, over charge the battery, force over-discharge, or throw in fire. Do not crush or puncture the battery or immerse in liquids.
Precautions to be taken in handling and storing:	Avoid mechanical or electrical abuse. Store in a cool, dry and ventilated area, which is subject to little temperature change. Avoid storage at high temperatures. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.
Other Precautions:	The battery may explode or cause burns if disassembled, crushed, exposed to fire, or high temperatures. Do not short or install with incorrect polarity.

EXPOSURE CONTROLS/PERSONAL PROTECTION	
Respiratory Protection:	In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.
Ventilation:	Not necessary under conditions of normal use.
Protective Gloves:	Not necessary under conditions of normal use.
Other Protective Clothing or Equipment:	Not necessary under conditions of normal use.
Personal protection recommended for venting battery:	Respiratory protection, protective gloves, protective clothing, and safety glass with side shields.

STABILITY AND REACTIVITY	
Stability:	Product is stable under conditions described in handling and storage.
Conditions to Avoid:	Heating above 70°C/158°F, incinerating, deforming, mutilating, crushing, disassembling, overcharging, short circuiting, or exposing over a long period to humid conditions.
Materials to Avoid:	Oxidizing agents, alkalis, water.
Hazardous Decomposition Products:	Toxic Fumes and may form peroxides.
Hazardous Polymerization:	N/A
If leaking, do not allow contact with strong oxidizers, mineral acids, strong alkalis, or halogenated hydrocarbons.	

TOXICOLOGICAL INFORMATION	
Signs & Symptoms:	None, unless battery ruptures. In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and skin.
Inhalation:	Lung irritant
Skin Contact:	Skin irritant
Eye Contact:	Eye irritant
Ingestion:	Poisonous if swallowed, Medical conditions generally aggravated by exposure. In the event of exposure to internal contents, moderate to severe irritation, burning and dryness of the skin may occur, targeting organs, nerves, liver and kidneys.

ECOLOGICAL INFORMATION	
Mammalian Effects:	None known at present.
Eco-Toxicity:	None known at present.
Bioaccumulation Potential:	Slowly Bio-degradable.
Environmental Fate:	None known environmental hazards at present.

DISPOSAL CONSIDERATIONS	
Do not incinerate, or subject cells to temperature in excess of 70°C/158°F. Such abuse can result in loss of seal/leakage, and/or cell explosion. Dispose of in accordance with appropriate local regulations.	

TRANSPORT INFORMATION	
Label for conveyance:	Class 9—Lithium Battery Hazard Label, Cargo Aircraft Only Label
UN Number:	UN3480 or UN3481
Packing Group:	Group II
EmS No:	F-A, S-I
Marine Pollutant:	No special precautions in which user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.
Proper Shipping name:	1) Lithium-Ion Batteries; 2) Lithium-Ion Batteries packed with equipment; 3) Lithium-Ion Batteries contained in equipment (including Lithium-Ion Polymer Batteries).
Transport Hazard Class(es):	The goods comply with the requirements of Section IA of Packing Instructions 965 or Section I of Packing Instructions 966-967 of 66th DGR Manual of IATA (2025 Edition) and IMDG CODE (Amdt. 42-24) 2024 Edition and ADR 2025, including the passing of the UN38.3 test.

REGULATION INFORMATION	
Dangerous Goods Regulations	
Recommendations on the Transport of Dangerous Goods Model Regulations	
International Maritime Dangerous Goods	
Technical Instructions for the Safe Transport of Dangerous Goods	
Classification and Code of Dangerous Goods	
Occupational Safety and Health Act (OSHA)	
Toxic Substance Control Act (TSCA)	
Consumer Product Safety Act (CPSA)	
Federal Environmental Pollution Control Act (FEPCA)	
The Oil Pollution Act (OPA) (302/311/312/313)	
Superfund Amendments and Reauthorization Act Title III (302/311/312/313) (SARA)	
Resource Conservation and Recovery Act (RCRA)	
Safety Drinking Water Act (CWA)	
California Proposition 65	
Code of Federal Regulations (CFR)	
In accordance with all federal, state and local laws.	

For questions or more information, please contact us at sales@foh.cc or call us at +1.305.757.7940.



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