SAFETY DATA SHEET

Issuing Date 20-Sep-2020

	1. IDENTIFICATION			
Product identifier				
Product Name	Lithium-ion Battery Pack GMBA6200-40 62V 216Wh			
Other means of identification				
Product Code(s)	1617638			
Recommended use of the chemical	and restrictions on use			
Recommended Use	LITHIUM ION BATTERIES			
Restrictions on use	No information available			
Details of the supplier of the safety	data sheet			
Supplier Identification	Daye Garden Machinery Co. Ltd			
Address	3400 Saint Vardell Lane Charlotte NC 28217 US			
Telephone	Phone:704 980-0904			
E-mail	graya@dayeope.com			
Emergency telephone number				
Company Emergency Phone Number	7045911258			

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2

Issuing Date 20-Sep-2020

Specific target organ toxicity (repeated exposure) Category 1

This is a battery. In case of rupture: the above hazards exist.

Appearance Black with green

Physical state Solid

Odor Mild

GHS Label elements, including precautionary statements

Danger

Hazard statements

Harmful if swallowed Toxic in contact with skin Causes severe skin burns and eye damage Suspected of causing cancer Causes damage to organs through prolonged or repeated exposure



Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)

Immediately call a POISON CENTER or doctor

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

Skin

Call a POISON CENTER or doctor if you feel unwell

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

Very toxic to aquatic life with long lasting effects.

Unknown acute toxicity

- 99.1 % of the mixture consists of ingredient(s) of unknown toxicity
- 79.1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 94.1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weig ht-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Lithium Nickel Oxide	12325-84-7	35	-	-
Graphite	7782-42-5	27.1	-	-
Iron	7439-89-6	20	-	-
Copper	7440-50-8	10	-	-
cobalt lithium dioxide	12190-79-3	1	-	-
Methyl propanoate	554-12-1	1	-	-
Aluminium	7429-90-5	1	-	-
lithium hexafluorophosphate(1-)	21324-40-3	1	-	-
4-Fluoro-1,3-dioxolan-2- one	114435-02-8	1	-	-
dimethyl carbonate	616-38-6	1	-	-
Polyethylene	9002-88-4	1	-	-
diiron trioxide	1309-37-1	0.1	-	-
Boehmite (Al(OH)O)	1318-23-6	0.1	-	-
Carbon black	1333-86-4	0.1	-	-
Nickel	7440-02-0	0.1	-	-
1-Methyl-2-pyrrolidinone	872-50-4	0.1	-	-
Aluminum lithium oxide (LiAIO)	11089-89-7	0.1	-	-
Chromium	7440-47-3	0.1	-	-

lithium carbonate	554-13-2	0.1	-	-
ethylbenzene	100-41-4	0.1	-	-

4. FIRST AID MEASURES

Description of first aid measures

General advice	First aid is upon rupture of sealed battery. Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical
Inhalation	advice/attention. Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	Burning sensation.
Indication of any immediate medica	I attention and special treatment needed
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.
	5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products Carbon oxides.

Explosion Data	
Sensitivity to Mechanical Impac	t None.
Sensitivity to Static Discharge	None.

Special protective equipment for
fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout
gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Other Information	Refer to protective measures listed in Sections 7 and 8.
Methods and material for containm	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling practice.	In case of rupture: Handle in accordance with good industrial hygiene and safety
	Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before
	reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.
Conditions for safe storage, inclue	ding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Protect from moisture. Store away from

other materials.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Name	ACGIH regulation	Biological exposure index	OSHA regulation	NIOSH regulation	EU regulation
Lithium Nickel Oxide	TWA = 1.5 mg/m ³ (inhalable particulate matter)(Nickel CAS.no 7440-02- 0)	Not available		0.015 mg/m ³ (metal and insoluble compounds (as Ni)) Ca TWA =0.015 mg/m ³ (soluble	Not applicable
Graphite	TWA = $2mg/m^3$	Not available		compounds (as Ni)) (Nickel CAS.no 7440-02-0) Not applicable	Not applicable
Iron	Not applicable	Not available	Not applicable	Not applicable	Not applicable
Copper	TWA = 0.2 mg/m ³ (fume)		Not applicable	Not applicable	Not applicable
cobalt lithium dioxide	TWA = 0.2 mg/m ⁻³ (Cobalt and cobal compounds,CAS. no7440-48-4)	Not available	TWA = 0.1 mg/m ² (Cobalt metal, dust, and fume (as Co),CAS.no7440 -48-4)	mg/m ³ (Cobalt metal, dust, and fume (as	Not applicable
Cobalt, Co	TWA = 0.02 mg/m ³	Not available	Not available	TWA 0.05 mg/m³	Not available
Methyl propanoate	Not applicable	Not available	Not applicable	Not applicable	Not applicable
Aluminium	TWA = 1 mg/m ³ (respirable particulate matter)	Not available	TWA = 15 mg/m ³ (Aluminum Metal (as Al) Total dust) TWA = 5 mg/m ³ (Aluminum Metal (as Al) Respirable fraction)		Not applicable
lithium hexafluorophosphate(1-)	Not applicable	Not available	Not applicable	Not applicable	Not applicable
4-Fluoro-1,3-dioxolan-2-one	Not applicable	Not available	Not applicable	Not applicable	Not applicable
dimethyl carbonate	Not applicable	Not available	Not applicable	Not applicable	Not applicable
Polyethylene	Not applicable	Not available	Not applicable	Not applicable	Not applicable
diiron trioxide	TWA = 5 mg/m ³	Not available	TWA = 10 mg/m ³ (fume)	TWA = 5 mg/m ³ (dust and fume)	Not applicable
Boehmite (AI(OH)O)	Not applicable	Not available	Not applicable	Not applicable	Not applicable

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Carbon black	TWA = 3mg/m ³ (inhalable particulate matter)	Not available	TWA = 3.5 mg/m³	TWA = 3.5 mg/m ³ Ca TWA = 0.1 mg PAHs/m ³ [Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)]	Not applicable
Nickel	TWA = 1.5 mg/m ^s (inhalable particulate matter	Not available	TWA = 1 mg/m ³ (metal and insoluble compounds (as Ni)) TWA = 1 mg/m ³ (soluble compounds (as Ni))	Ca TWA = 0.015 mg/m ³ (metal and insoluble compounds (as Ni)) Ca TWA = 0.015 mg/m ³ (soluble compounds (as Ni))	Not applicable
1-Methyl-2-pyrrolidinone	Not applicable	Not available	Not applicable	Not applicable	TWA = 40 mg/m ³ , TWA= 10 ppm, STEL = 80 mg/m ³ , STEL = 20 ppm
Aluminum lithium oxide (LiAlO)	TWA = 1 mg/m ³ (respirable particulate matter)(Aluminu m CAS.no 7429- 90-5)	Not available	TWA = 15 mg/m ³ (Aluminum Metal (as Al) Total dust) TWA = 5 mg/m ³ (Aluminum Metal (as Al) Respirable fraction) (Aluminum CAS.no 7429-90- 5)	TWA = 1 mg/m ³ (Aluminum Metal (as Al),Respirable fraction)(Aluminu m CAS.no 7429- 90-5)	Not applicable
Chromium	TWA = 0.5 mg/m ³ (inhalable particulate matter); TLV basis: respiratory tract irritation, TWA = 0.5 mg/m ³	Not available	TWA = 0.5 mg/m ³ (Chromium (II) compounds (as Cr),Chromium (III) compounds (as Cr)) TWA = 1 mg/m ³ (Chromium metal and insol. salts	TWA = 0.5 mg/m ³ (Chromium (II) compounds (as Cr),Chromium (III) compounds (as Cr)) TWA = 0.5 mg/m ³ (Chromium metal	TWA = 2 mg/m ³

			(as Cr))	and insol. salts (as Cr))	
lithium carbonate	Not applicable	Not available	Not applicable	Not applicable	Not applicable
ethylbenzene	TWA = 20 ppm	Not available	TWA = 100 ppm TWA = 435 mg/m ³	TWA = 100 ppm (ST) 125 ppm	TWA = 442 mg/m ³ , TWA= 100 ppm, STEL = 884 mg/m ³ , STEL = 200 ppm

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters.

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Face protection shield.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid	
Appearance	Black	
Odor	Mild	
Color	No information available	
Odor Threshold	Not applicable	
<u>Property</u>	Values_	Remarks Method
pH	No data available	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known

Water Solubility Solubility(ies) Partition coefficient:	Insoluble in water No data available n-octanol/water0	None known
Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity	No data available No data available No data available No data available	None known None known None known None known
Other Information Explosive properties	No information available	
Oxidizing properties Softening Point Molecular Weight VOC Content (%) Liquid Density Bulk Density Particle Size Particle Size Distribution	No information available No information available	

10. STABILITY AND REACTIVITY

Reactivity	No information available. Chemical
stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials	Acids. Bases. Oxidizing agent.

Hazardous Decomposition Products Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information In case of rupture:
Inhalation	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
Eye contact	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact		ubstance or mixture is not av ns. Toxic in contact with skir	vailable. Corrosive. (based on
Ingestion	Specific test data for the si components). Ingestion ca cause severe burning pain blood. Blood pressure may mouth. Swelling of the thro	ubstance or mixture is not a uses burns of the upper dige in the mouth and stomach v decrease. Brownish or yello	vailable. Causes burns. (based on estive and respiratory tracts. May vith vomiting and diarrhea of dark owish stains may be seen around the preath and choking. May cause lung
Information on toxicological eff	ects_		
Symptoms	Redness. Burning. May ca	use blindness. Coughing an	d/ or wheezing.
Numerical measures of toxicity			
Acute Toxicity			
The following values are calcula ATEmix (oral) ATEmix (dermal)	i ted based on chapter 3.1 of th 1,858.60 mg/kg 354.00 mg/kg	e GHS document.	
94.1 % of the mixture consists 99.1 % of the mixture consists 99.1 % of the mixture consists	99.1 % of the mixture cons of ingredient(s) of unknown acu of ingredient(s) of unknown acu of ingredient(s) of unknown acu of ingredient(s) of unknown acu of ingredient(s) of unknown acu	te dermal toxicity te inhalation toxicity (gas) te inhalation toxicity (vapor)	
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Graphite	> 2,000 mg/kg(Rat)	-	> 2 mg/L/4hr(Rat)
Graphite Fe	> 2,000 mg/kg(Rat) =98,600 mg/kg(Rat)	-	> 2 mg/L/4hr(Rat) > 100 mg/m³/6hr(Rat)

Oraphile	2,000 mg/kg(kat)	_	Z mg/L/4m (Kat)
Fe	=98,600 mg/kg(Rat)	-	> 100 mg/m³/6hr(Rat)
Copper	> 2,500 mg/kg(Rat)	> 2,000 mg/kg(Rat)	-
Aluminum	> 15,900 mg/kg(Rat)	-	> 0.888 mg/L/4hr(Rat)
Lithium	= 50 ~ 300 mg/kg (Rat)	-	-
4-fluoro-1,3-dioxolan-2-one	=500 mg/kg(Rat)	> 2,000 mg/kg (Rat)	-
Dimethyl carbonate	> 5,000 mg/kg(Rat)	> 2,000 mg/kg(Rabbit)	> 5.36 mg/L/4hr(Rat)
Polyethylene	> 2,000 mg/kg(Rat)	-	-
Diiron trioxide	> 5,000 mg/kg (Rat)	-	= 5.05 mg/L/4hr(Rat)
Boehmite (Al(OH)O)	> 2,000 mg/kg(Rat)	-	>0.888 mg/kg/4hr(Rat)
Carbon black	> 8,000 mg/kg (Rat)	-	> 0.005 mg/L/4hr(Rat)
Nickel; Raney nickel	> 9,000 mg/kg(Rat)	-	-
1-Methyl-2-pyrrolidinone	= 4,150 mg/kg(Rat)	>5,000 mg/kg(Rat)	> 5.1 mg/L/4hr(Rat)
Chromium	> 5,000 mg/kg(Rat)	-	> 5.41 mg/L/4hr(Rat)
Lithium carbonate;Lithane	= 525 mg/kg(Rat)	>3,000 mg/kg(Rabbit)	> 2 mg/L/4hr(Rat)
Ethylbenzene	= 3,500 mg/kg(Rat)	= 15,432 mg/kg	= 17.8 mg/L/4hr(Rat)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes burns.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.
Respiratory or skin sensitization	No information available.

Germ cell mutagenicity

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No information available.
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Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Nickel	A4	Group 2B	R	Present
Cobalt and cobalt compounds	A3	Group 3B		
Polyethylene	A5	Group 3B		
diiron trioxide	A4	Group 2B		
Carbon black	A3	Group 2B	Present	Present
Chromium	A4	Group 3B		
Ethylbenzene	A3	Group 2B		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program) Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present **Reproductive toxicity** No information available. STOT - single exposure No information available. STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure. No information available. Aspiration hazard

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganis	Daphnia Magna (Water Flea)
Graphite	72hr-EC50 (Selenastrum capricornutum) > 100 mg/L	96h LC50: > 100 mg/L (Danio rerio)	-	-
Copper	72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: < 0.3 mg/L (Pimephales promelas)		48h EC50: = 0.03 mg/L
Propylene carbonate	72h EC50: > 500 mg/L (Desmodesmus subspicatus)	96h LC50: = 5300 mg/L (Leuciscus idus) 96h LC50: > 1000 mg/L (Cyprinus carpio)	EC50 > 10000 mg/L 17 h	48h EC50: > 500 mg/L
Fe		96hr-LC50 > 10000 mg/L (OECD TG 203, GLP)	-	-
Aluminum	72hr-EC50 = 0.0169 mg/L (OECD TG 201), (Read across; CAS 13473-90-0)	96hr-LC50 > 218.64 mg/L (GLP)(Read across; aluminium chloride hexahydrate), 28d- NOEC (Pimephales promelas) = 4.7 mg/L (Read across; aluminium sulphate)	-	-
Carbon black	72hr-EC50 > 10000 mg/L , 72hr-NOEC > 10,000mg/I (OECD TG 201, GLP)	96hr-LC0 = 1000 mg/L (OECD TG 203, GLP)	-	-
	e72hr-EC50 = 600.5 mg/L	96hr-LC50 > 500 mg/L (BBA- bulletin No. 33, 2. edition)	-	-
Lithium carbonate	72hr-EC50 > 400 mg/L	96hr-LC50 = 30.3 mg/L (OECD Guideline 203, GLP), 34d-NOEC (Danio rerio) = 15.28 mg/L (Read across;	-	-

Persistence and Degradability No information available.

 Bioaccumulation

 Component Information

 Mobility
 No information available.

 Other adverse effects
 No information available.

Waste treatment methods	13. DISPOSAL CONSIDERATIONS
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
California Waste Codes	141

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste
lithium hexafluorophosphate(1-) 21324-40-3	Тохіс
Copper 7440-50-8	Toxic
Aluminum 7429-90-5	Ignitable powder

14. TRANSPORT INFORMATION

Note:	The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185.3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule) Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"
DOT UN-No. Proper Shipping Name Hazard Class Description Emergency Response Guide Number	UN3480 LITHIUM ION BATTERIES 9 UN3480, LITHIUM ION BATTERIES, 9 147
<u>TDG</u> UN-No. Proper Shipping Name Hazard Class Marine Pollutant Description	UN3480 LITHIUM ION BATTERIES 9 This product contains a chemical which is listed as a severe marine pollutant according to TDG. UN3480, LITHIUM ION BATTERIES, 9
<u>MEX</u> UN-No. Proper Shipping Name Hazard Class	UN3480 LITHIUM ION BATTERIES 9

Description	UN3480, LITHIUM ION BATTERIES, 9
ICAO UN-No. Proper Shipping Name Hazard Class Description	UN3480 LITHIUM ION BATTERIES 9 UN3480, LITHIUM ION BATTERIES, 9
IATA_ UN-No. Proper Shipping Name Hazard Class ERG Code Description	UN3480 LITHIUM ION BATTERIES 9 9F UN3480, LITHIUM ION BATTERIES, 9
IMDG/IMO UN-No. Proper Shipping Name Hazard Class EmS-No. Description	UN3480 LITHIUM ION BATTERIES 9 F-A, S-I UN3480, LITHIUM ION BATTERIES, 9
<u>RID</u> UN-No. Proper Shipping Name Hazard Class Classification code Description	UN3480 LITHIUM ION BATTERIES 9 M4 UN3480, LITHIUM ION BATTERIES, 9
ADR UN-No. Proper Shipping Name Hazard Class Classification code Tunnel restriction code Description	UN3480 LITHIUM ION BATTERIES 9 M4 (E) UN3480, LITHIUM ION BATTERIES, 9
ADN UN-No. Proper Shipping Name Hazard Class Classification code Special Provisions Description Limited Quantity	UN3480 LITHIUM ION BATTERIES 9 M4 188, 230, 310, 348, 636, 661 UN3480, LITHIUM ION BATTERIES, 9 0
	15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

 $\ensuremath{\mathsf{ENCS}}$ - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Copper - 7440-50-8	7440-50-8	14.1	1.0
Aluminum - 7429-90-5	7429-90-5	10	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		Х	Х	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Copper 7440-50-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Graphite 7782-42-5	Х	X	Х		
Copper 7440-50-8	Х	X	Х	Х	Х
Aluminum 7429-90-5	Х	X	Х	Х	
Phosphate(1-), hexafluoro-, lithium 21324-40-3	X				

This product may contain substances regulated by state right-to-know regulations.

16. OTHER INFORMATION				
<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 0	Flammability 0	Physical hazards 0	Personal Protection X
Prepared By	23 British	Stewardship n American Blvd. NY 12110 ′2-6501		
Issuing Date	20-Sep-2020			
Revision Date				
Revision Note	No inform	nation available		

Disclaimer

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End of Safety Data Sheet