SAFETY DATA SHEET

Issuing Date 02-Apr-2020

Revision Date 02-DEC-2020

Revision Number 1

NGHS / English



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1. IDENTIFICATION

Product identifier	
Product Name	Greenworks GMAX 40-volt 2 Ah Li-ion Battery
Other means of identification	
Product Code(s)	1167488
Recommended use of the chemica	al and restrictions on use
Recommended Use	Lithium Ion Battery
Restrictions on use	No information available
Details of the supplier of the safet	y data sheet
Supplier Identification	Hongkong Sun Rise Trading Ltd.
Address	Room 713,No.8-9,Lane 1500,South LianHua Road,Minhang District,Shanghai,201108 China
	Shanghai



	Jiangsu
	201108
	China
Telephone	Phone:0086-21-33581871
E-mail	Senbiao.du@globetools.com
Emergency telephone number	
Company Emergency Phone	1-888-909-6757
Number	

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is an article which is a sealed battery and as such does not require an MSDS per the OSHA hazard

communication standard unless ruptured. The hazards indicated are for a ruptured battery

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B

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

Appearance Solid

Physical state Solid

Odor Odorless



GHS Label elements, including precautionary statements

Danger

Hazard statements

Harmful if swallowed

Toxic in contact with skin

Fatal if inhaled

Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

May cause cancer



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 Use only outdoors or in a well-ventilated area Wear respiratory protection Contaminated work clothing must not be allowed out of the workplace **Precautionary Statements - Response** IF exposed or concerned: Get medical advice/attention



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

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

IF ON SKIN: Wash with plenty of water and soap

Call a POISON CENTER or doctor if you feel unwell

Take off immediately all contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention

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

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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 100 % of the mixture consists of ingredient(s) of unknown toxicity

75 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

96 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

60 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Supplier Trade Secret	-	40 - 50%	-	-
Supplier Trade Secret	-	10 - 20%	-	-
Supplier Trade Secret	-	10 - 20%	-	-
Supplier Trade Secret	-	10 - 20%	-	-
Supplier Trade Secret	-	0 - 10%	-	-
Supplier Trade Secret	-	0 - 10%	-	-
Phosphate(1-), hexafluoro-, lithium	21324-40-3	4%	-	-
Supplier Trade Secret	-	0 - 10%	-	-
Supplier Trade Secret	-	0 - 10%	-	-

4. FIRST AID MEASURES

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention. First aid is upon rupture of sealed battery.



Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not breathe dust. 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. Get medical attention immediately if symptoms occur.
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. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area.
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction.
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. Do not breathe dust. 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. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.
Most important symptoms and effect	cts, both acute and delayed
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives.
Indication of any immediate medica	l attention and special treatment needed

Indication of any immediate medical attention and special treatment needed

Note to physicians

May cause sensitization in susceptible persons. Treat symptomatically.

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	Product is or contains a sensitizer. May cause sensitization by skin contact.
Hazardous Combustion Products	Carbon oxides.
Explosion Data	
Sensitivity to Mechanical Impact	NONE.
Sensitivity to Static Discharge	NONE.
Special protective equipment for fire-fighters	Firefighters 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	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid generation of dust. Do not breathe dust. 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 containment 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 In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Do not breathe dust. Avoid generation of dust. 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, including 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters			
Exposure Limits			
Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Supplier Trade Secret	TWA: 0.02 mg/m ³ Co inhalable particulate matter TWA: 0.02 mg/m ³ Mn	(vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn	IDLH: 500 mg/m ³ Mn IDLH: 10 mg/m ³ Ni
	respirable particulate matter		TWA: 1 mg/m ³ Mn TWA: 0.015 mg/m ³ except Nickel



	TWA: 0.1 mg/m ³ M				carbonyl Ni
particulate matter				STEL: 3 mg/m ³ Mn	
Supplier Trade Secret	TWA: 2 mg/m ³ i			ng/m ³ total dust	IDLH: 1250 mg/m ³
	•	particulate matter all forms except graphite fibers		ynthetic g/m ³ respirable m synthetic	TWA: 2.5 mg/m ³ respirable dust
			(vacated)	TWA: 2.5 mg/m ³ e dust natural	
				TWA: 10 mg/m ³ ust synthetic	
) TWA: 5 mg/m ³ traction synthetic	
			TWA: 15	5 mppcf natural	
Supplier Trade Secret	TWA: 0.2 mg/m	³ fume	TWA: 0.	1 mg/m³ fume	IDLH: 100 mg/m ³ dust, fume and mist
			TWA: 1 n	ng/m³ dust and mist	TWA: 1 mg/m ³ dust and
			(vacated)	TWA: 0.1 mg/m ³	mist
				st, fume, mist	TWA: 0.1 mg/m ³ fume
Supplier Trade Secret	Supplier Trade Secret TWA: 1 mg/m ³ respirable particulate matter		TWA: 15 r	ng/m³ total dust	TWA: 10 mg/m ³ total dust
				g/m ³ respirable fraction	TWA: 5 mg/m ³ respirable dust
			• • •	TWA: 15 mg/m ³ otal dust	
) TWA: 5 mg/m ³ able fraction	
Phosphate(1-), hexafluoro-	, TWA: 2.5 mg	/m³ F	TWA:	2.5 mg/m ³ F	IDLH: 250 mg/m ³ F
lithium			(vacated)	TWA: 2.5 mg/m ³	
21324-40-3 Supplier Trade Secret	TWA: 1.5 m	a/m ³		A: 1 mg/m ³	IDLH: 10 mg/m ³
		9,) TWA: 1 mg/m ³	TWA: 0.015 mg/m ³
Chemical name	Alberta	British C	·	Ontario TWA	C C
Supplier Trade Secret	TWA: 0.02 mg/m ³	TWA: 0.0	2 mg/m ³	TWA: 0.02 mg	/m ³ TWA: 0.2 mg/m ³ TWA:
	TWA: 0.2 mg/m ³			TWA: 0.1 mg/	0.02 mg/m ³
Supplier Trade Secret	TWA: 2 mg/m ³	TWA: 2	mg/m³	TWA: 2 mg/n	³ TWA: 2 mg/m ³
Supplier Trade Secret	TWA: 0.2 mg/m ³	TWA: 1	mg/m³	TWA: 0.2 mg/	m ³ TWA: 0.2 mg/m ³
	TWA: 1 mg/m ³	TWA: 0.2	2 mg/m³	TWA: 1 mg/n	³ TWA: 1 mg/m ³



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Supplier Trade Secret	TWA: 10 mg/m ³	TWA: 1.0 mg/m ³	TWA: 1 mg/m ³	TWA: 10 mg/m ³
Phosphate(1-), hexafluoro-, lithium	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³
21324-40-3				
Supplier Trade Secret	TWA: 1.5 mg/m ³	TWA: 0.05 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³
Other Exposure Guideline			ppeals decision in AFL-CI	
Appropriate engineering c	ontrols			
Engineering controls	Showers			
	Eyewash station	ons		
	Ventilation sys	Ventilation systems.		
Individual protection measures, such as personal protective equipment				
Eye/face protection	Tight sealing s	afety goggles.		
Hand protection	Wear suitable	gloves. Impervious gloves	ð.	
Skin and body protection	Wear suitable	protective clothing. Long	sleeved clothing. Chemical	resistant apron.
Respiratory protection		are facing concentrations rtified respirators.	above the exposure limit t	hey must use
General hygiene considera	with skin, eyes drink or smoke gloves, includi and clothing is handling the p	s or clothing. Wear suitable when using this product. ng the inside, before re-us recommended. Wash ha roduct. Do not breathe du	al hygiene and safety pract e gloves and eye/face prote Remove and wash contam se. Regular cleaning of equ nds before breaks and imm st. Take off contaminated co ng should not be allowed ou	ection. Do not eat, ninated clothing and nipment, work area nediately after clothing and wash



9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid
Appearance	Solid
Odor	Odorless
Color	No information available
Odor Threshold	No data available

<u>Property</u> pH	<u>Values</u> No data available	Remarks Method
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	Insoluble	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/wate		
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available No data available	None known None known
Dynamic viscosity	No data avallable	None known
Other Information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening Point	No information available	
Molecular Weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk Density	No information available	
Particle Size	No information available	



Particle Size Distribution

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	Excessive heat.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
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. Fatal if inhaled. (based on components). May cause irritation of respiratory tract.	
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye	

	damage. (based on components). Severely irritating to eyes. May cause burns. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation. Toxic in contact wit skin.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based c components).
Symptoms related to the physica	al, chemical and toxicological characteristics
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.
Numerical measures of toxicity	blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.
Numerical measures of toxicity Acute Toxicity	blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.
Numerical measures of toxicity Acute Toxicity	blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.
Numerical measures of toxicity Acute Toxicity The following values are calcula	blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.
Numerical measures of toxicity Acute Toxicity The following values are calcula ATEmix (oral)	blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.
Numerical measures of toxicity Acute Toxicity The following values are calcula ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-vapor)	blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes. ted based on chapter 3.1 of the GHS document . 871.00 mg/kg 300.00 mg/kg
Numerical measures of toxicity Acute Toxicity The following values are calcula ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-vapor) Unknown acute toxicity	blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes. ted based on chapter 3.1 of the GHS document . 871.00 mg/kg 300.00 mg/kg 0.50 mg/L
Numerical measures of toxicity Acute Toxicity The following values are calcula ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-vapor) Unknown acute toxicity 75 % of the mixture consists of	 blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes. ted based on chapter 3.1 of the GHS document . 871.00 mg/kg 300.00 mg/kg 0.50 mg/L 100 % of the mixture consists of ingredient(s) of unknown toxicity
Numerical measures of toxicity Acute Toxicity The following values are calcula ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-vapor) Unknown acute toxicity 75 % of the mixture consists of 96 % of the mixture consists of	ted based on chapter 3.1 of the GHS document . 871.00 mg/kg 300.00 mg/kg 0.50 mg/L 100 % of the mixture consists of ingredient(s) of unknown toxicity
ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-vapor) Unknown acute toxicity 75 % of the mixture consists of 96 % of the mixture consists of 100 % of the mixture consists of	ted based on chapter 3.1 of the GHS document . 871.00 mg/kg 300.00 mg/kg 0.50 mg/L 100 % of the mixture consists of ingredient(s) of unknown toxicity ingredient(s) of unknown acute oral toxicity ingredient(s) of unknown acute dermal toxicity

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Supplier Trade Secret	-	-	> 2000 mg/m³ (Rat)4 h
Supplier Trade Secret	= 30 g/kg (Rat)	-	-
Supplier Trade Secret	= 29000 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Supplier Trade Secret	= 10 g/kg (Rat)	>3 g/kg (Rabbit)	> 730 mg/m³ (Rat)8 h
Supplier Trade Secret	> 9000 mg/kg (Rat)	-	>10.2 mg/L (Rat)1 h

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. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Supplier Trade Secret	A3	Group 2B	Reasonably Anticipated	Х
		Group 1	Known	
Supplier Trade Secret	-	Group 2B	Reasonably	х
			Anticipated	

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)		
Group 1 - Carcinogenic to Humar	IS	
Group 2B - Possibly Carcinogenio	c to Humans	
NTP (National Toxicology Prog	ram)	
Known - Known Carcinogen		
Reasonably Anticipated - Reason	ably Anticipated to be a Human Carcinogen	
OSHA (Occupational Safety and	d 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.	
Aspiration hazard	No information available.	

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic to aquatic life with long lasting effects.			
Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Supplier Trade Secret	-	96h LC50: > 100 mg/L (Danio rerio)	-	-
Supplier Trade Secret	-	96h LC50: = 13.6 mg/L (Morone saxatilis)	-	-
Supplier Trade Secret	96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: = 0.2 mg/L (Pimephales promelas)	-	48h EC50: = 0.03 mg/L (Daphnia magna)

		96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: < 0.3 mg/L (Pimephales promelas)		
Supplier Trade Secret	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 (Daphnia magna)
Supplier Trade Secret	-	96h LC50: > 100 mg/L (Oncorhynchus mykiss)	-	-
Supplier Trade Secret	72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.174 - 0.311 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 10.4 mg/L (Cyprinus carpio) 96h LC50: = 1.3 mg/L (Cyprinus carpio) 96h LC50: > 100 mg/L (Brachydanio rerio)	-	48h EC50: > 100 mg/L (Daphnia magna) 48h EC50: = 1 mg/L (Daphnia magna)
Demaister en al Dema	de la 1114 e de la marca de	· · · · · · · · · · · · · · · · · · ·		

Persistence and Degradability

No information available.

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Bioaccumulation

Component Information		
Chemical name	Log Pow	
Supplier Trade Secret	0.48	

Mobility

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS



Waste treatment methods

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

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

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Chemical name	California Hazardous Waste
Supplier Trade Secret	Toxic
Supplier Trade Secret	Toxic
Supplier Trade Secret	Ignitable powder
Supplier Trade Secret	Toxic powder
	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 Transport Association Iisted 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

	NOT REGULATED
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
Emergency Response Guide Number	147

TDG

UN-No.	UN3480
Proper Shipping Name	LITHIUM ION BATTERIES
Hazard Class	9
Description	UN3480, LITHIUM ION BATTERIES, 9

MEX

UN-No.	UN3480
Proper Shipping Name	LITHIUM ION BATTERIES
Hazard Class	9
Description	UN3480, LITHIUM ION BATTERIES, 9

ICAO

UN-No.	UN3480	
Proper Shipping Name	LITHIUM ION BATTERIES	
Hazard Class	9	
Description	UN3480, LITHIUM ION BATTERIES, S	
	NOT REGULATED	
UN-No.	UN3480	
Proper Shipping Name	LITHIUM ION BATTERIES	



	Hazard Class	N/A
	ERG Code	9F
	Description	UN3480, LITHIUM ION BATTERIES
IM	DG/IMO	NOT REGULATED
	UN-No.	UN3480
	Proper Shipping Name	LITHIUM ION BATTERIES
	Hazard Class	N/A
	EmS-No.	F-A, S-I
	Description	UN3480, LITHIUM ION BATTERIES
RIE	<u>)</u>	
	UN-No.	UN3480
	Proper Shipping Name	LITHIUM ION BATTERIES
	Hazard Class	9
	Classification code	M4
	Description	UN3480, LITHIUM ION BATTERIES, 9
۸ D	D	

ADR

UN-No.	UN3480
Proper Shipping Name	LITHIUM ION BATTERIES
Hazard Class	9
Classification code	M4
Tunnel restriction code	(E)
Description	UN3480, LITHIUM ION BATTERIES, 9

ADN

UN-No.	UN3480
Proper Shipping Name	LITHIUM ION BATTERIES
Hazard Class	9
Classification code	M4



Special Provisions	188, 230, 310, 348, 636, 661
Description	UN3480, LITHIUM ION BATTERIES
Limited Quantity	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

- 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

SARA 313

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 %
Supplier Trade Secret -		40 - 50%	1.0 0.1
Supplier Trade Secret -		10 - 20%	1.0
Supplier Trade Secret -		0 - 10%	1.0
Supplier Trade Secret -		0 - 10%	0.1

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
Supplier Trade Secret		х		
Supplier Trade Secret		х	х	
Supplier Trade Secret		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
Supplier Trade Secret	5000 lb		RQ 5000 lb final RQ
			RQ 2270 kg final RQ
Supplier Trade Secret	100 lb		RQ 100 lb final RQ
			RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Supplier Trade Secret -	carcinogen, 5/7/2004
Supplier Trade Secret -	carcinogen, 10/1/1989 (metallic)
U.S. State Right-to-Know Regulations	

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

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Supplier Trade Secret	Х		х	x	Х
Supplier Trade Secret	Х	х	×		
Supplier Trade Secret	Х	х	Х	x	х
Supplier Trade Secret	х	х	х	х	



Phosphate(1-), hexafluoro-, lithium	Х				
21324-40-3					
Supplier Trade Secret		х	Х		
Supplier Trade Secret	Х	Х	Х	х	Х

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						
Issuing Date	26-Mar-20	020				
Revision Date	02-Dec-20	020				
Revision Note	No informa	ation available				

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

