# SAFETY DATA SHEET

Issuing Date 19-Dec-2019

Revision Date 18-Dec-2019

#### **Revision Number** 1

NGHS / English



The supplier identified below generated this SDS using the UL SDS template. UL did not test, certify, or approve the substance described in this SDS, and all information in this SDS was provided by the supplier or was reproduced from publically available regulatory data sources. UL makes no representations or warranties regarding the completeness or accuracy of the information in this SDS and disclaims all liability in connection with the use of this information or the substance described in this SDS. The layout, appearance and format of this SDS is © 2014 UL LLC. All rights reserved.

# **1. IDENTIFICATION**

Product identifier		
Product Name	Rechargeable Li-ion Battery L19C3PF7 by Celxpert	
Other means of identification		
Product Code(s)	1554557	
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	Lenovo LNB laptops	
Address	Songtao Road 696 shanghai shanghai 201203 CN	
Telephone	Phone:18116118603	
E-mail	yuanbb1@lenovo.com	
Emergency telephone number		
Company Emergency Phone Number	18116118603	

# 2. HAZARDS IDENTIFICATION

#### **Classification**

Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B



Specific target organ toxicity (repeated exposure)

Category 1

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

Appearance Solid

Physical state Solid

Odor No information available

#### GHS Label elements, including precautionary statements

#### Danger

#### Hazard statements

Toxic in contact with skin Causes skin irritation Causes serious eye damage May cause an allergic skin reaction May cause 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 Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (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

## **Precautionary Statements - Storage**

Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Other information

May be harmful if swallowed. Very toxic to aquatic life with long lasting effects.



#### Unknown acute toxicity

e toxicity 98.19 % of the mixture consists of ingredient(s) of unknown toxicity

67.12 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

95.06 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98.19 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98.19 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

98.19 % 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)
Lithium Cobalt Oxide (CoLiO2)	12190-79-3	42.28	-	-
Aluminum foil	7429-90-5	9.68	-	-
Copper	7440-50-8	8.6	-	-
Phosphate(1-), hexafluoro-, lithium	21324-40-3	3.13	-	-
Nickel	7440-02-0	0.45	-	-

# 4. FIRST AID MEASURES

#### Description of first aid measures

General advice Inhalation	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. Remove to fresh air. 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. 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. Itching. Rashes. Hives.

#### 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 Sensitivity to Static Discharge	t NONE. 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. 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. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities



#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Limits**

ACGIH	TLV	0	SHA PEL	NIOSI	H IDLH
,	TWA: 0.02 mg/m <sup>3</sup>		-		
		TWA: 15 mg/m <sup>3</sup> total dust		TWA: 10 mg/	m <sup>3</sup> total dust
particulate	matter	TWA: 5 mg/m <sup>3</sup> respirable		TWA: 5 mg/m <sup>3</sup>	respirable dust
		(vacated) TV	•		
			, 0		
T\A/A + O O m m	1002 6.000 0				/ma2 durat furma a
TWA: 0.2 mg	/m <sup>3</sup> rume				
TWA:25 n	na/m <sup>3</sup> F				¥
, , , , , , , , , , , , , , , , , , , ,				o mg/m i	
		(1.1.1.1.1.1)			
TWA: 1.5	mg/m <sup>3</sup>	TW	A: 1 mg/m <sup>3</sup>	IDLH: 1	0 mg/m <sup>3</sup>
	0	(vacated) TWA: 1 mg/m <sup>3</sup>			15 mg/m <sup>3</sup>
Alberta	British C	Columbia	Ontario TWAE	V	Quebec
TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.0	02 mg/m <sup>3</sup>	TWA: 0.02 mg/i	m <sup>3</sup> TWA	: 0.02 mg/m <sup>3</sup>
TWA: 10 mg/m <sup>3</sup>	TWA: 1.	.0 mg/m³	TWA: 1 mg/m	<sup>3</sup> TWA	∖։ 10 mg/m³
		0	•		$1.0.2 \text{ mg/m}^3$
<u> </u>			v		A: 1 mg/m <sup>3</sup>
1 VVA: 2.5 mg/m <sup>3</sup>	VVA: 2.5 mg/m <sup>3</sup> TWA: 2.		1 VVA: 2.5 mg/n	n° IVVA	1: 2.5 mg/m <sup>3</sup>
$TWA \cdot 1.5 ma/m^3$	TWA	$05 \text{ mg/m}^3$	T\\/A·1 ma/m	3 <b>Τ\Λ/</b>	A: 1 mg/m <sup>3</sup>
1 W.A. 1.3 mg/m <sup>2</sup>	1004.0.0	00 mg/m²	i w.a. i ing/iii		A. Emg/III
	2) TWA: 0.02 TWA: 1 mg/m <sup>3</sup> particulate TWA: 0.2 mg , TWA: 0.2 mg , TWA: 1.5 Alberta	TWA: 1 mg/m³ respirable particulate matter         TWA: 0.2 mg/m³ fume         TWA: 0.2 mg/m³ fume         ,       TWA: 2.5 mg/m³ F         TWA: 1.5 mg/m³         Alberta       British 0         TWA: 0.02 mg/m³       TWA: 0.0         TWA: 10 mg/m³       TWA: 0.1         TWA: 0.2 mg/m³       TWA: 0.2         TWA: 2.5 mg/m³       TWA: 0.2         TWA: 2.5 mg/m³       TWA: 2.5	2)       TWA: 0.02 mg/m³         TWA: 1 mg/m³ respirable particulate matter       TWA: 15 TWA: 5 m (vacated) TWA: 5 m (vacated) TWA: 0.1 mg (vacated) TWA: 0.2 mg/m³ fume         TWA: 0.2 mg/m³ fume       TWA: 0.1 mg (vacated) TWA: 1 mg (vacated) TWA: 1 mg (vacated) TWA: 1 mg (vacated) TWA: 1.5 mg/m³ F         TWA: 1.5 mg/m³ F       TWA: (vacated) TWA: 0.2 mg/m³ F         TWA: 1.5 mg/m³ TWA: 0.02 mg/m³       TWA: 0.02 mg/m³ TWA: 0.02 mg/m³ TWA: 0.02 mg/m³ TWA: 0.02 mg/m³ TWA: 1.0 mg/m³ TWA: 0.2 mg/m³ TWA: 1.0 mg/m³ TWA: 2.5 mg/m³ TWA: 2.5 mg/m³	2)       TWA: 0.02 mg/m <sup>3</sup> -         TWA: 1 mg/m <sup>3</sup> respirable particulate matter       TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 0.1 mg/m <sup>3</sup> fume         TWA: 0.2 mg/m <sup>3</sup> fume       TWA: 0.1 mg/m <sup>3</sup> fume TWA: 0.1 mg/m <sup>3</sup> dust and mist (vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust, fume, mist         ,       TWA: 2.5 mg/m <sup>3</sup> F       TWA: 2.5 mg/m <sup>3</sup> F         ,       TWA: 1.5 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup>	2)       TWA: 0.02 mg/m³       -       TWA: 1 mg/m³ respirable particulate matter       TWA: 15 mg/m³ total dust TWA: 5 mg/m³ total dust fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ total dust (vacated) TWA: 0.1 mg/m³ total dust (vacated) TWA: 0.2 mg/m³ fume       TWA: 0.2 mg/m³ fume       TWA: 0.1 mg/m³ tume TWA: 0.1 mg/m³ fume TWA: 0.1 mg/m³ dust and mist (vacated) TWA: 0.1 mg/m³ CWA: 1 mg/m³ dust and mist (vacated) TWA: 2.5 mg/m³ F       IDLH: 100 mg/m³ tume TWA: 0.1 mg/m³ fume TWA: 0.1 mg/m³ fume TWA: 0.1 mg/m³ TWA: 0.1 mg/m³ TWA: 0.1 mg/m³ F         7       TWA: 2.5 mg/m³ F       TWA: 2.5 mg/m³ F       IDLH: 2.5 mg/m³ F         7       TWA: 1.5 mg/m³ TWA: 0.02 mg/m³ TWA: 0.2 mg/m³ TWA: 2.5 mg/m³ TWA: 2.5 mg/m³ TWA: 2.5 mg/m³ TWA: 0.2 mg/m³ TWA

#### **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, such as personal protective equipment

- **Eye/face protection** Tight sealing safety goggles.
- 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and	chemical properties_	
Physical state	Solid	
Appearance	Solid	
Odor	No information available	
Color	No information available	
Odor Threshold	No information available	
Property	<u>Values</u>	Remarks Method
рН	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	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/wat		
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	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	None known based on information supplied.	
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. 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 with skin.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.
Numerical measures of toxicity	
Acute Toxicity	
The following values are calculated ATEmix (oral)	I based on chapter 3.1 of the GHS document . 4,848.10 mg/kg
ATEmix (dermal)	473.50 mg/kg
95.06 % of the mixture consists of 98.19 % of the mixture consists of 98.19 % of the mixture consists of	98.19 % of the mixture consists of ingredient(s) of unknown toxicity f ingredient(s) of unknown acute oral toxicity f ingredient(s) of unknown acute dermal toxicity f ingredient(s) of unknown acute inhalation toxicity (gas) f ingredient(s) of unknown acute inhalation toxicity (vapor) f ingredient(s) of unknown acute inhalation toxicity (dust/mist)
Component Information	

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lithium Cobalt Oxide (CoLiO2)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.05 mg/L (Rat)4 h



Nickel	> 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	
Lithium Cobalt Oxide (CoLiO2)	A3	Group 2B	Reasonably Anticipated	Х	
12190-79-3					
Nickel 7440-02-0	-	Group 2B	Reasonably Anticipated	X	
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.
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)
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	-	48h EC50: = 0.03 mg/L

Nickel	96h EC50: 0.174 - 0.311 mg/L (Pseudokirchneriella subcapitata) 72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata)	(Cyprinus carpio) 96h LC50: = 10.4 mg/L	-	48h EC50: = 1 mg/L 48h EC50: > 100 mg/L	
		on available.			
Bioaccumulation There is		data for this product.			
<b>Mobility</b> No i		on available.			
Other adverse effects	No informati	No information available.			
13. DISPOS		POSAL CONSIDER	ATIONS		
Waste treatment method	Waste treatment methods				
Waste from residues/un products		n accordance with local reg tal legislation.	ulations. Dispose of waste	in accordance with	
Contaminated packaging Do not reuse		e empty containers.			

#### California Waste Codes

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

141

Chemical name	California Hazardous Waste
Lithium Cobalt Oxide (CoLiO2)	Toxic
12190-79-3	
Aluminum foil	Ignitable powder
7429-90-5	
Copper	Toxic
7440-50-8	
Nickel	Toxic powder
7440-02-0	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"
<u>DOT</u> Proper Shipping Name Hazard Class Emergency Response Guide Number	NOT REGULATED NON-REGULATED N/A 147
TDG	Not regulated
<u>MEX</u>	Not regulated
ICAO	Not regulated
IATA Proper Shipping Name Hazard Class	Not regulated NON REGULATED N/A
IMDG/IMO Hazard Class EmS-No.	Not regulated N/A F-A, S-I
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

## **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

#### <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 %
Lithium Cobalt Oxide (CoLiO2) - 12190-79-3	12190-79-3	42.28	0.1
Aluminum foil - 7429-90-5	7429-90-5	9.68	1.0
Copper - 7440-50-8	7440-50-8	8.6	1.0
Nickel - 7440-02-0	7440-02-0	0.45	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
Copper 7440-50-8		Х	Х	
Nickel 7440-02-0		Х	Х	

#### <u>CERCLA</u>

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
Aluminum foil			
7429-90-5			
Copper	5000 lb		RQ 5000 lb final RQ
7440-50-8			RQ 2270 kg final RQ
Nickel	100 lb		RQ 100 lb final RQ
7440-02-0			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
Nickel - 7440-02-0	carcinogen, 10/1/1989 (metallic)
U.S. State Right-to-Know Regulations	

#### U.S. State Right-to-Know Regulations



Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	Х		Х	Х	Х
Aluminum foil 7429-90-5	Х	X	Х	Х	
Copper 7440-50-8	Х	X	Х	Х	Х
Phosphate(1-), hexafluoro-, lithium 21324-40-3	Х				
Nickel 7440-02-0	Х	X	Х	Х	Х

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	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501				
Issuing Date	19-Dec-2019				
<b>Revision Date</b>	18-Dec-2	2019			
Revision Note	No inforn	nation 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**



# SAFETY DATA SHEET

**Issuing Date** No data available

Revision Date 19-Dec-2019

#### **Revision Number** 1

NGHS / English



The supplier identified below generated this SDS using the UL SDS template. UL did not test, certify, or approve the substance described in this SDS, and all information in this SDS was provided by the supplier or was reproduced from publically available regulatory data sources. UL makes no representations or warranties regarding the completeness or accuracy of the information in this SDS and disclaims all liability in connection with the use of this information or the substance described in this SDS. The layout, appearance and format of this SDS is © 2014 UL LLC. All rights reserved.

# **1. IDENTIFICATION**

Product identifier	
Product Name	Rechargeable Li-ion Battery L19D3PF5 by Sunwoda
Other means of identification	
Product Code(s)	1554775
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	Lenovo LNB laptops
Address	Songtao Road 696 shanghai shanghai 201203 CN
Telephone	Phone:18116118603
E-mail	yuanbb1@lenovo.com
Emergency telephone number	
Company Emergency Phone Number	18116118603

# 2. HAZARDS IDENTIFICATION

#### **Classification**

Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1



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

Appearance Solid

Physical state Solid

Odor No information available

#### GHS Label elements, including precautionary statements

#### Danger

Hazard statements Toxic in contact with skin Causes skin irritation Causes serious eye irritation 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 breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (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 If eye irritation persists: Get medical advice/attention

#### 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 occurs: Get medical advice/attention

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

May be harmful if swallowed.

#### Unknown acute toxicity

99.5 % of the mixture consists of ingredient(s) of unknown toxicity

76.2 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

97.7 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 99.5 % 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)
Lithium Cobalt Oxide (CoLiO2)	12190-79-3	31	-	-
Graphite	7782-42-5	19	-	-
Propylene carbonate	108-32-7	7.3	-	-
Phosphate(1-), hexafluoro-, lithium	21324-40-3	1.8	-	-
Carbon black	1333-86-4	0.5	-	-

# **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. Remove to fresh air. 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.			
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 effects, both acute and delayed				
Symptoms	Burning sensation.			
Indication of any immediate medical attention and special treatment needed				
Note to physicians	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	No information available.
Hazardous Combustion Products	Carbon oxides.
Explosion Data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t NONE. 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.				
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 handlingAdvice on safe handlingIn case of rupture: H

ice on safe handling In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse. 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. Store locked up.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

#### **Exposure Limits**

Chemical name		ACGIH T	LV	0	SHA PEL		NIOSH IDLH
Lithium Cobalt Oxide (Co 12190-79-3	LiO2)	TWA: 0.02 mg/m <sup>3</sup>		-			
Graphite 7782-42-5		particulate matter all forms except graphite fibers T (v (vac		s TWA: 5 m fractio (vacated) respirab (vacated) TV dus (vacated) respirable	mg/m <sup>3</sup> total dust ynthetic ng/m <sup>3</sup> respirable on synthetic TWA: 2.5 mg/m <sup>3</sup> le dust natural VA: 10 mg/m <sup>3</sup> total t synthetic ) TWA: 5 mg/m <sup>3</sup> fraction synthetic 5 mppcf natural	TWA	IDLH: 1250 mg/m <sup>3</sup> A: 2.5 mg/m <sup>3</sup> respirable dust
Phosphate(1-), hexafluc lithium 21324-40-3	oro-,	TWA: 2.5 mg/m <sup>3</sup> F		TWA: 2.5 mg/m <sup>3</sup> F (vacated) TWA: 2.5 mg/m <sup>3</sup>			IDLH: 250 mg/m <sup>3</sup> F
Carbon black 1333-86-4		TWA: 3 mg/m <sup>3</sup> inhalable particulate matter			: 3.5 mg/m³ TWA: 3.5 mg/m³	in	IDLH: 1750 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> Carbon black presence of Polycyclic natic hydrocarbons PAH
Chemical name		Alberta	British C	Columbia	Ontario TWAE		Quebec
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	τv	VA: 0.02 mg/m <sup>3</sup>	TWA: 0.0	02 mg/m <sup>3</sup>	TWA: 0.02 mg/	m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
Graphite 7782-42-5	٦	TWA: 2 mg/m <sup>3</sup> TWA: 2		2 mg/m³	TWA: 2 mg/m	3	TWA: 2 mg/m <sup>3</sup>
Phosphate(1-), hexafluoro-, lithium 21324-40-3	T	WA: 2.5 mg/m <sup>3</sup>	TWA: 2.	5 mg/m³	TWA: 2.5 mg/n	n <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>
Carbon black 1333-86-4	T	WA: 3.5 mg/m <sup>3</sup>	TWA: 3	3 mg/m³	TWA: 3 mg/m	3	TWA: 3.5 mg/m <sup>3</sup>

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 Show Eyew

Showers Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

information on basic physical and o		
Physical state	Solid	
Appearance	Solid	
Odor	No information available	
Color	No information available	
Odor Threshold	No information available	
-		-
Property	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	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/wate	erNo information available	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other Information	No information available	
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

None known based on information supplied.

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. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). Irritating to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components). Toxic in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Redness. May cause redness and tearing of the eyes.
Numerical measures of toxicity	

**Acute Toxicity** 

The following values are calculated	based on chapter 3.1 of the GHS document .
ATEmix (oral)	4,646.90 mg/kg
ATEmix (dermal)	383.30 mg/kg

#### Unknown acute toxicity

99.5 % of the mixture consists of ingredient(s) of unknown toxicity 76.2 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

97.7 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

99.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lithium Cobalt Oxide (CoLiO2)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.05 mg/L (Rat)4 h
Graphite	-	-	> 2000 mg/m <sup>3</sup> (Rat) 4 h
Propylene carbonate	= 29000 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-

#### 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 serious eye irritation.



Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
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
Lithium Cobalt Oxide	A3	Group 2B	Reasonably Anticipated	Х
(CoLiO2)				
12190-79-3				
Carbon black	A3	Group 2B	-	Х
1333-86-4				

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

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

# **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Graphite	-	96h LC50: > 100 mg/L (Danio rerio)	-	-
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
Carbon black	-	-	-	24h EC50: > 5600 mg/L

Persistence and Degradability No information available.

#### **Bioaccumulation**

#### **Component Information**

Chemical name	Log Pow
Propylene carbonate	0.48



Mobility	No information available.

141

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.

Chemical name	California Hazardous Waste
Lithium Cobalt Oxide (CoLiO2)	Toxic
12190-79-3	

# **14. TRANSPORT INFORMATION**

Note: DOT Proper Shipping Name Hazard Class	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 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"
Emergency Response Guide Number	147
<u>TDG</u>	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA_ Proper Shipping Name Hazard Class	Not regulated NON REGULATED N/A
IMDG/IMO Hazard Class	Not regulated N/A



EmS-No.	F-A, S-I
<u>RID</u>	Not regulated
ADR	Not regulated
ADN	Not regulated

# **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**

#### <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 %
Lithium Cobalt Oxide (CoLiO2) - 12190-79-3	12190-79-3	31	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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)



#### <u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Carbon black - 1333-86-4	Carcinogen

#### 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
Lithium Cobalt Oxide	Х		Х	Х	Х
(CoLiO2)					
12190-79-3					
Graphite	Х	Х	Х		
7782-42-5					
Phosphate(1-),	Х				
hexafluoro-, lithium					
21324-40-3					
Carbon black	Х	Х	Х		Х
1333-86-4					

16. OTHER INFORMATION				
<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical
<u>HMIS</u>	Health hazards 0	Flammability 0	Physical hazards 0	Properties - Personal Protection X
Prepared By	23 British	Stewardship American Blvd. NY 12110 2-6501		
<b>Revision Date</b>	19-Dec-2019			
<b>Revision Note</b>	No information 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** 

