SAFETY DATA SHEET

Issuing Date No data available

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Revision Number 1

NGHS / English



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1. IDENTIFICATION

Product identifier		
Product Name	AHB492426HPS	
Other means of identification		
Product Code(s)	1449538	
Recommended use of the chemica	l and restrictions on use	
Recommended Use	LITHIUM ION BATTERIES	
Restrictions on use	No information available	
Details of the supplier of the safety	v data sheet	
Supplier Identification	Synergy	
Address	7F, No9, Park Avenue II, Science-based Industrial Park HsinChu N/A 30075 TW	
Telephone	Phone:886-3-5643700 Fax:886-3-5646767	
E-mail	stellah0917@gmail.com	
Emergency telephone number		
Company Emergency Phone Number	886-911254622	
2. HAZARDS IDENTIFICATION		

2. HAZARDS IDENTIFICATION

Classification



1449538 - AHB492426HPS

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
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 data available

GHS Label elements, including precautionary statements

Danger

Hazard statements

Harmful if swallowed Toxic in contact with skin Harmful if inhaled Causes skin irritation Causes serious eye irritation 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 Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area

Contaminated work clothing must not be allowed out of the workplace

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

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 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 Ingestion IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

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

80.04 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
87.94 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
90.14 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

90.14 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

90.14 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

90.14 % of the mixture consists of ingredient(s) of unknown toxicity

Substance

Not applicable.

Mixture

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	30.24	-	-
Ci 77266	1333-86-4	17.67	-	-
Aluminum	7429-90-5	14.28	-	-
Copper	7440-50-8	9.37	-	-
Phosphate(1-), hexafluoro-, lithium	21324-40-3	2.2	-	-
Propylene carbonate	108-32-7	1.21	-	-
Nickel	7440-02-0	0.77	-	-
1,3-Propane sultone	1120-71-4	0.4	-	-
Propylene imine	75-55-8	0.2	-	-

4. FIRST AID MEASURES

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 advice/attention.



Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention immediately. If symptoms persist, call a physician.
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. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. See section 8 for more information.
Most important symptoms and effe	ects, both acute and delayed
Symptoms	Itching. Rashes. Hives. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.
Indication of any immediate medic	al 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.
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Specific hazards arising from the Product is or contains a sensitizer. May cause sensitization by skin contact. **chemical**

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. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not breathe dust.	
Other Information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containme	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 handlingIn 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. In case of insufficient ventilation, wear
suitable respiratory equipment. Do not eat, drink or smoke when using this product. Avoid
breathing dust/fume/gas/mist/vapors/spray. Avoid generation of dust.

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
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	TWA: 0.02 mg/m ³	-	
Ci 77266 1333-86-4	TWA: 3 mg/m ³ inhalable particulate matter	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³
			TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Aluminum	TWA: 1 mg/m ³ respirable	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
7429-90-5	particulate matter	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable
		fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³	dust
		respirable fraction (vacated) TWA: 5 mg/m ³ Al Aluminum	
Copper	TWA: 0.2 mg/m ³ fume TWA: 1		IDLH: 100 mg/m ³ dust, fume
7440-50-8	mg/m ³ Cu dust and mist	TWA: 1 mg/m ³ dust and mist	and mist



				```	WA: 0.1 mg/m ³ Cu	TWA: 1 mg/m ³ dust and mist
		<b>T</b> 1/1 0 5	/ 2 <b>–</b>		, fume, mist	TWA: 0.1 mg/m ³ fume
Phosphate(1-), hexaflue	oro-,	TWA: 2.5 mg	j/m³ ⊢		2.5 mg/m ³ F	IDLH: 250 mg/m ³ F
21324-40-3				(vacated)	TWA: 2.5 mg/m ³	
Nickel		TWA: 1.5 m	a/m ³	τ	A: 1 mg/m ³	IDLH: 10 mg/m ³
7440-02-0		1004. 1.5 11	ig/iii		) TWA: 1 mg/m ³	TWA: 0.015 mg/m ³
Propylene imine		STEL: 0.4	maa		/A: 2 ppm	IDLH: 100 ppm
75-55-8		TWA: 0.2 p			A: 5 mg/m ³	TWA: 2 ppm
		S* .			d) TWĂ: 2 ppm	TWA: 5 mg/m ³
					) TWA: 5 mg/m ³	_
				(va	icated) S*	
		• • •			S*	
Chemical name		Alberta		Columbia	Ontario TWAE	
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	10	VA: 0.02 mg/m ³	TWA: 0.0	)2 mg/m ³	TWA: 0.02 mg/i	m ³ TWA: 0.02 mg/m ³
Ci 77266 1333-86-4	Т	WA: 3.5 mg/m ³	TWA: 3	3 mg/m ³	TWA: 3 mg/m	³ TWA: 3.5 mg/m ³
Aluminum 7429-90-5	TWA	: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 1.	0 mg/m ³	TWA: 1 mg/m	³ TWA: 10 mg/m ³ TWA: 5 mg/m ³
Copper	T	WA: 0.2 mg/m ³	TWA: 1	mg/m ³	TWA: 0.2 mg/n	
7440-50-8	TWA: 1 mg/m ³		TWA: 0.2 mg/m ³ TWA: 1 mg/m			
Phosphate(1-), hexafluoro-, lithium 21324-40-3	Т	WA: 2.5 mg/m ³	TWA: 2.	5 mg/m ³	TWA: 2.5 mg/n	n ³ TWA: 2.5 mg/m ³
Nickel 7440-02-0	T	WA: 1.5 mg/m ³	TWA: 0.0	)5 mg/m³	TWA: 1 mg/m	³ TWA: 1 mg/m ³
1,3-Propane sultone 1120-71-4			T۷	VA:	TWA:	
Propylene imine		TWA: 2 ppm	TWA:	2 ppm	TWA: 0.2 ppn	
75-55-8	Т	WA: 4.7 mg/m ³			STEL: 0.4 ppr	5
		Skin			Skin	Skin

#### 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, suc	ch 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. Avoid breathing dust/fume/gas/mist/vapors/spray.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties	_	
Physical state	Solid	
Appearance	Solid	
Odor	No data available	
Color	No information available	
Odor Threshold	No data 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	erNot Applicable	
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	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. Harmful by inhalation. (based on components). May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.
Skin contact	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Causes skin irritation. Toxic in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Information on toxicological effects

Symptoms

Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Numerical measures of toxicity

#### **Acute Toxicity**

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	1,269.00 mg/kg
ATEmix (dermal)	255.00 mg/kg
ATEmix (inhalation-gas)	4,930.49 mg/L
ATEmix (inhalation-dust/mist)	2.47 mg/L
ATEmix (inhalation-vapor)	24.70 mg/L

#### Unknown acute toxicity

90.14 % of the mixture consists of ingredient(s) of unknown toxicity

80.04 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

87.94 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

90.14 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

90.14 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

90.14 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ci 77266	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Propylene carbonate	= 29000 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Nickel	> 9000 mg/kg (Rat)	-	> 10.2 mg/L (Rat)1 h
1,3-Propane sultone	= 100 mg/kg (Rat) = 157	-	-



	mg/kg (Rat)		
Propylene imine	= 19 mg/kg (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. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.
Carcinogenicity	Classification based on data available for ingredients. Contains a known or suspected carcinogen.

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				
Ci 77266	A3	Group 2B	-	Х
1333-86-4				
Nickel	-	Group 2B	Reasonably Anticipated	Х
7440-02-0				
1,3-Propane sultone	A3	Group 2A	Reasonably Anticipated	Х
1120-71-4				
Propylene imine	A3	Group 2B	Reasonably Anticipated	Х
75-55-8				

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans 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**

Marine Pollutant	This product contains a chemical which is listed as a severe marine pollutant according to DOT
Ecotoxicity	Very toxic to aquatic life with long lasting effects.



Chamical name		Taviaity ta Fiab	Taviaituta	Dephysic Magnes (Master
Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna (Water
			Microorganisms	Flea)
Ci 77266	-	-	-	24h EC50: > 5600 mg/L
Copper	96h EC50: 0.031 -	96h LC50: = 0.052 mg/L	-	48h EC50: = 0.03 mg/L
	0.054 mg/L	(Oncorhynchus mykiss)		
	(Pseudokirchneriella	96h LC50: < 0.3 mg/L		
	subcapitata) 72h EC50:	(Pimephales promelas)		
	0.0426 - 0.0535 mg/L	96h LC50: 0.0068 -		
	(Pseudokirchneriella	0.0156 mg/L (Pimephales		
	subcapitata)	promelas) 96h LC50: =		
		0.2 mg/L (Pimephales		
		promelas) 96h LC50: =		
		0.3 mg/L (Cyprinus		
		carpio) 96h LC50: =		
		0.112 mg/L (Poecilia		
		reticulata) 96h LC50: =		
		0.8 mg/L (Cyprinus		
		carpio) 96h LC50: = 1.25		
		mg/L (Lepomis		
		macrochirus)		
Propylene carbonate	72h EC50: > 500 mg/L	96h LC50: = 5300 mg/L	EC50 > 10000 mg/L 17 h	48h EC50: > 500 mg/L
	(Desmodesmus	(Leuciscus idus) 96h	_	_
	subspicatus)	LC50: > 1000 mg/L		
	. ,	(Cyprinus carpio)		
Nickel	72h EC50: = 0.18 mg/L	96h LC50: = 1.3 mg/L	-	48h EC50: = 1 mg/L 48h
	(Pseudokirchneriella	(Cyprinus carpio) 96h		EC50: > 100 mg/L
	subcapitata) 96h EC50:	LC50: > 100 mg/L		_
	0.174 - 0.311 mg/L	(Brachydanio rerio) 96h		
	(Pseudokirchneriella	LC50: = 10.4 mg/L		
	subcapitata)	(Cyprinus carpio)		

Persistence and Degradability

No information available.

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#### **Bioaccumulation**

Chemical name		Log Pow
Propylene carbonate		0.48
Mobility	No information available.	

Other adverse effects

No information available.

## **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Waste from residues/unused<br/>productsDispose of in accordance with local regulations. Dispose of waste in accordance with<br/>environmental legislation.

**Contaminated packaging** 

Do not reuse empty containers.

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Propylene imine		P067		



75-55-8

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
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	Toxic
Aluminum 7429-90-5	Ignitable powder
Copper 7440-50-8	Toxic
Nickel 7440-02-0	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 Transportation Ilisted 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"
DOT Proper Shipping Name Hazard Class Marine Pollutant Emergency Response Guide Number	NOT REGULATED NON-REGULATED N/A This product contains a chemical which is listed as a severe marine pollutant according to DOT 147
TDG_ Marine Pollutant	Not regulated This product contains a chemical which is listed as a severe marine pollutant according to TDG.
MEX	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



<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**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

International Inventories

Contact supplier for inventory compliance status.
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 %
Lithium Cobalt Oxide (CoLiO2) - 12190-79-3	12190-79-3	30.24	0.1
Aluminum - 7429-90-5	7429-90-5	14.28	1.0
Copper - 7440-50-8	7440-50-8	9.37	1.0
Nickel - 7440-02-0	7440-02-0	0.77	0.1
1,3-Propane sultone - 1120-71-4	1120-71-4	0.4	0.1
Propylene imine - 75-55-8	75-55-8	0.2	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	

#### **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
Nickel 7440-02-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
1,3-Propane sultone 1120-71-4	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ
Propylene imine 75-55-8	1 lb	1 lb	RQ 1 lb final RQ RQ 0.454 kg final RQ

## US State Regulations

## California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Ci 77266 - 1333-86-4	carcinogen, 2/21/2003 (airborne, unbound particles of respirable
	size)
Nickel - 7440-02-0	carcinogen, 10/1/1989 (metallic)
1,3-Propane sultone - 1120-71-4	carcinogen, 1/1/1988
Propylene imine - 75-55-8	carcinogen, 1/1/1988

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

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

Chemical name	New Jersey	Massachusett	Pennsylvania	Rhode Island	Illinois
		s			
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	Х		X	Х	Х
Ci 77266 1333-86-4	Х	Х	X		Х
Aluminum 7429-90-5	Х	Х	X	Х	
Copper 7440-50-8	Х	Х	Х	Х	Х
Phosphate(1-), hexafluoro-, lithium 21324-40-3	Х				
Nickel 7440-02-0	Х	Х	Х	Х	Х
1,3-Propane sultone 1120-71-4	Х	Х	Х	Х	Х
Propylene imine	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	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501				
Revision Date	24-Apr-2018				
<b>Revision Note</b>	No inform	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**

