SAFETY DATA SHEET

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NGHS / English



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1. IDENTIFICATION

| Product identifier | |
|---------------------------------------|--|
| Product Name | AHB401835TPS Li-ion Rechargeable battery by SYNergy |
| Other means of identification | |
| Product Code(s) | 1487018 |
| 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 |

Classification



1487018 - AHB401835TPS Li-ion Rechargeable battery by SYNergy

| Acute toxicity - Dermal | Category 3 |
|--|-------------|
| Acute toxicity - Inhalation (Gases) | 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 No information available

Physical state Solid

Odor No data available

GHS Label elements, including precautionary statements

Danger

Hazard statements

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 Use only outdoors or in a well-ventilated area

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 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

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 90.01 % of the mixture consists of ingredient(s) of unknown toxicity

79.51 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

88.19 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

90.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

90.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

90.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

| Chemical name | CAS No. | 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 | 32.62 | - | - |
| Carbon black | 1333-86-4 | 16.96 | - | - |
| Aluminum | 7429-90-5 | 14.6 | - | - |
| Copper | 7440-50-8 | 7.87 | - | - |
| Phosphate(1-), hexafluoro-, lithium | 21324-40-3 | 1.82 | - | - |
| Nickel | 7440-02-0 | 0.6 | - | - |
| Propylene imine | 75-55-8 | 0.1 | - | - |

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 medica | 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. |
| 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 Impac Sensitivity to Static Discharge | ot None. None. |

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautionsAvoid 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 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. 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. Store locked up. Keep out of the reach of children.

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 | - | | |
| Carbon black 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 7429-90-5 | TWA: 1 mg/m ³ respirable particulate matter | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust | |
| Copper 7440-50-8 | TWA: 0.2 mg/m ³ fume | TWA: 0.1 mg/m ³ fume TWA: 1 mg/m ³ dust and mist (vacated) TWA: 0.1 mg/m ³ Cu dust, fume, mist | IDLH: 100 mg/m ³ dust, fume and mist TWA: 1 mg/m ³ dust and mist TWA: 0.1 mg/m ³ fume | |
| Phosphate(1-), hexafluoro-, lithium | TWA: 2.5 mg/m ³ F | TWA: 2.5 mg/m ³ F (vacated) TWA: 2.5 mg/m ³ | IDLH: 250 mg/m ³ F | |



| 21324-40-3 | | | | | | | |
|--|---------------|---|-----------|--|--|----------------|---|
| Nickel 7440-02-0 | TWA: 1.5 mg/n | | ıg/m³ | | A: 1 mg/m³) TWA: 1 mg/m³ | | IDLH: 10 mg/m ³ WA: 0.015 mg/m ³ |
| Propylene imine 75-55-8 | | STEL: 0.4 ppm TWA: 0.2 ppm S* | | TW TW/ (vacated) (vacated) | /A: 2 ppm A: 5 mg/m ³ d) TWA: 2 ppm) TWA: 5 mg/m ³ acated) S* S* | | IDLH: 100 ppm TWA: 2 ppm TWA: 5 mg/m ³ |
| Chemical name | | Alberta | British C | Columbia | Ontario TWAE | V | Quebec |
| Lithium Cobalt Oxide (CoLiO2) 12190-79-3 | τv | VA: 0.02 mg/m ³ | TWA: 0.0 |)2 mg/m ³ | TWA: 0.02 mg/r | n ³ | TWA: 0.02 mg/m ³ |
| Carbon black 1333-86-4 | Τ | WA: 3.5 mg/m ³ | TWA: 3 | 8 mg/m ³ | TWA: 3 mg/m ² | 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 | 3 - | TWA: 10 mg/m ³ TWA: 5 mg/m ³ |
| Copper 7440-50-8 | | WA: 0.2 mg/m ³ FWA: 1 mg/m ³ | | mg/m ³ 2 mg/m ³ | TWA: 0.2 mg/m TWA: 1 mg/m | | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ |
| Phosphate(1-), hexafluoro-, lithium 21324-40-3 | T | WA: 2.5 mg/m ³ | TWA: 2. | 5 mg/m ³ | TWA: 2.5 mg/n | 1 ³ | TWA: 2.5 mg/m ³ |
| Nickel 7440-02-0 | T | WA: 1.5 mg/m ³ | TWA: 0.0 |)5 mg/m ³ | TWA: 1 mg/m ² | 3 | TWA: 1 mg/m ³ |
| Propylene imine 75-55-8 | т | TWA: 2 ppm WA: 4.7 mg/m ³ Skin | TWA: | 2 ppm | TWA: 0.2 ppm STEL: 0.4 ppn Skin | | TWA: 2 ppm TWA: 4.7 mg/m ³ 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, 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. Avoid breathing dust/fume/gas/mist/vapors/spray. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| <u>Physical and Chemical Properties</u> Physical state Appearance Odor Color Odor Threshold | Solid No information available No data available No information available No information available | |
|--|--|----------------|
| Outri mesnolu | | |
| 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/wa | ater0 | |
| 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 | |
| | | |

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. | | | |

No information available

 \bigcirc

Particle Size Distribution

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| Product Information | Product does not present a | an acute toxicity hazard based or | h 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. Harmful by inhalation. (based on components). | | | |
| Eye contact | | Specific test data for the substance or mixture is not available. Causes serious irritation. (based on components). Irritating to eyes. | | | |
| Skin contact | (based on components). M | Specific test data for the substance or mixture is not available. Causes skin irritat (based on components). May cause sensitization by skin contact. Repeated or p skin contact may cause allergic reactions with susceptible persons. Toxic in cont skin. | | | |
| Ingestion | | ubstance or mixture is not availal ausea, vomiting and diarrhea. M | | | |
| Information on toxicological ef | fects | | | | |
| Symptoms | toms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Coughir and/ or wheezing. | | | | |
| Numerical measures of toxicity | <u>, </u> | | | | |
| Acute Toxicity | | | | | |
| The following values are calcul | | he GHS document | | | |
| ATEmix (oral) ATEmix (dermal) | 2,077.70 mg/kg 453.10 mg/kg | | | | |
| ATEmix (inhalation-gas) | 9,991.00 mg/L | | | | |
| ATEmix (inhalation-gas) | | | | | |
| ATEmix (inhalation-vapor) | 50.05 mg/L | | | | |
| Unknown acute toxicity 90.01 % of the mixture consists of ingredient(s) of unknown toxicity 79.51 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 88.19 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 90.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 90.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 90.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 90.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) | | | | | |
| Component Information Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 | | |
| Carbon black | > 15400 mg/kg (Rat) | > 3 g/kg (Rabbit) | - | | |
| Niekol | > 10+00 mg/kg (Rat) | | . 10.0 m m/L (Dat) 1 h | | |

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

> 9000 mg/kg (Rat)

= 19 mg/kg (Rat)



Nickel

Propylene imine

(Rat)1h

> 10.2 mg/L

-

1487018 - AHB401835TPS Li-ion Rechargeable battery by SYNergy

| 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 | 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) 12190-79-3 | A3 | Group 2B | Reasonably Anticipated | Х |
| Carbon black 1333-86-4 | A3 | Group 2B | - | Х |
| Nickel 7440-02-0 | - | Group 2B | Reasonably Anticipated | Х |
| Propylene imine 75-55-8 | A3 | Group 2B | Reasonably Anticipated | Х |

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 - PresentReproductive toxicityNo information available.STOT - single exposureNo information available.STOT - repeated exposureCauses 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) |
|---------------|---|--|-------------------------------|-------------------------------|
| Carbon black | - | - | - | 24h EC50: > 5600 mg/L |
| Copper | 96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella | 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: < 0.3 mg/L (Pimephales promelas) 96h LC50: 0.0068 - 0.0156 mg/L (Pimephales) | - | 48h EC50: = 0.03 mg/L |



| | 1 4 4 5 | | | |
|--------|------------------------|--------------------------|---|------------------------|
| | 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) | | |
| 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 | | C C |
| | 0.174 - 0.311 mg/L | (Brachydanio rerio) 96h | | |
| | (Pseudokirchneriella | LC50: = 10.4 mg/L | | |
| | subcapitata) | (Cyprinus carpio) | | |

| Persistence and Degradability | No information available. |
|-------------------------------|------------------------------------|
| Bioaccumulation | There is no data for this product. |
| 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. |

| Chemical name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|----------------------------|---|------------------------|------------------------|------------------------|
| Propylene imine 75-55-8 | | P067 | | |

California Waste Codes 141

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

| Chemical name | California Hazardous Waste |
|-------------------------------|----------------------------|
| Lithium Cobalt Oxide (CoLiO2) | Toxic |
| 12190-79-3 | |
| Aluminum | 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" | | |
| Proper Shipping Name Hazard Class Emergency Response Guide Number | NOT REGULATED NON-REGULATED N/A 147 | | |
| TDG | Not regulated | | |
| 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 | | |
| 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

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements 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 % |
|--|------------|----------|----------------------------------|
| Lithium Cobalt Oxide (CoLiO2) - 12190-79-3 | 12190-79-3 | 32.62 | 0.1 |
| Aluminum - 7429-90-5 | 7429-90-5 | 14.6 | 1.0 |
| Copper - 7440-50-8 | 7440-50-8 | 7.87 | 1.0 |
| Nickel - 7440-02-0 | 7440-02-0 | 0.6 | 0.1 |
| Propylene imine - 75-55-8 | 75-55-8 | 0.1 | 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 |



| Propylene imine | 1 lb | 1 lb | RQ 1 lb final RQ |
|-----------------|------|------|----------------------|
| 75-55-8 | | | 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 |
|---------------------------------|----------------------------------|
| Carbon black - 1333-86-4 | Carcinogen |
| Nickel - 7440-02-0 | carcinogen, 10/1/1989 (metallic) |
| Propylene imine - 75-55-8 | carcinogen, 1/1/1988 |
| 1,3-Propane sultone - 1120-71-4 | 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 | | Х | Х | Х |
| Carbon black 1333-86-4 | X | X | Х | | Х |
| Aluminum 7429-90-5 | X | 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 | Х | Х | Х | Х |
| Propylene imine 75-55-8 | Х | Х | Х | Х | Х |

16. OTHER INFORMATION

| NFPA | Health hazards 1 | Flammability 0 | Instability 0 | Physical and Chemical Properties - | |
|---------------|---------------------------|--|------------------|---------------------------------------|--|
| HMIS | Health hazards 0 | Flammability 0 | Physical hazards | • | |
| Prepared By | 23 British / Latham, N | Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501 | | | |
| Issuing Date | 14-Nov-2018 | | | | |
| Revision Date | 09-Nov-20 | 09-Nov-2018 | | | |
| 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

