SAFETY DATA SHEET

Issuing Date No data available

Revision Date 09-Apr-2018

Revision Number 1

NGHS / English



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1. IDENTIFICATION

Product identifier

Product Name Lithium-ion polymer battery AHB521521 Hard Pack V2.0

Other means of identification

Product Code(s) 1445973

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 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

886-911254622

Number

2. HAZARDS IDENTIFICATION

Classification



| 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 Solid 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.

<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 | 32.62 | - | - |
| Ci 77266 | 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



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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 contactGet 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 effects, both acute and delayed

Symptoms Itching. Rashes. Hives. Burning sensation. Coughing and/ or wheezing. Difficulty in

breathing.

Indication of any immediate medical attention and special treatment needed

Note to physiciansMay cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous Combustion Products Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. 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 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. 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) | TWA: 0.02 mg/m ³ | - | | |
| 12190-79-3 | | | | |
| Ci 77266 | TWA: 3 mg/m ³ inhalable | TWA: 3.5 mg/m ³ | IDLH: 1750 mg/m ³ | |
| 1333-86-4 | particulate matter | (vacated) TWA: 3.5 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 | dust | |
| | | (vacated) TWA: 15 mg/m³ total | | |
| | | dust | | |
| | | (vacated) TWA: 5 mg/m ³ | | |
| | | 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/m³ Cu dust and mist | TWA: 1 mg/m ³ dust and mist | and mist | |
| | | (vacated) TWA: 0.1 mg/m ³ Cu | TWA: 1 mg/m ³ dust and mist | |
| | | dust, fume, mist | TWA: 0.1 mg/m ³ fume | |
| Phosphate(1-), hexafluoro-, | TWA: 2.5 mg/m ³ F | TWA: 2.5 mg/m ³ F | IDLH: 250 mg/m ³ F | |
| lithium | | (vacated) TWA: 2.5 mg/m ³ | | |



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TWA: 1 mg/m³

TWA: 2 ppm

TWA: 4.7 mg/m³

Skin

21324-40-3 TWA: 1 mg/m³ IDLH: 10 mg/m³ Nickel TWA: 1.5 mg/m³ 7440-02-0 (vacated) TWA: 1 mg/m³ TWA: 0.015 mg/m³ Propylene imine TWA: 2 ppm IDLH: 100 ppm STEL: 0.4 ppm TWA: 5 mg/m³ 75-55-8 TWA: 0.2 ppm TWA: 2 ppm S* (vacated) TWA: 2 ppm TWA: 5 mg/m³ (vacated) TWA: 5 mg/m³ (vacated) S* S* Chemical name Alberta British Columbia Ontario TWAEV Quebec Lithium Cobalt Oxide TWA: 0.02 mg/m³ TWA: 0.02 mg/m³ TWA: 0.02 mg/m³ TWA: 0.02 mg/m³ (CoLiO2) 12190-79-3 Ci 77266 TWA: 3.5 mg/m³ TWA: 3 mg/m³ TWA: 3.5 mg/m³ TWA: 3 mg/m³ 1333-86-4 TWA: 10 mg/m³ TWA: 5 TWA: 1.0 mg/m³ TWA: 1 mg/m³ TWA: 10 mg/m³ TWA: 5 Aluminum 7429-90-5 mg/m³ mg/m³ TWA: 0.2 mg/m³ TWA: 1 mg/m³ TWA: 0.2 mg/m³ TWA: 0.2 mg/m³ Copper 7440-50-8 TWA: 1 mg/m³ TWA: 0.2 mg/m³ TWA: 1 mg/m³ TWA: 1 mg/m³ Phosphate(1-), TWA: 2.5 mg/m³ TWA: 2.5 mg/m³ TWA: 2.5 mg/m³ TWA: 2.5 mg/m³

TWA: 0.05 ma/m³

TWA: 2 ppm

Other Exposure Guidelines

hexafluoro-, lithium 21324-40-3 Nickel

7440-02-0 Propylene imine

75-55-8

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d

TWA: 1 mg/m³

TWA: 0.2 ppm

STEL: 0.4 ppm

Skin

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

TWA: 1.5 mg/m³

TWA: 2 ppm

TWA: 4.7 mg/m³

Skin

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 protectionNo protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

exceeded of irritation is experienced, ventiliation 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

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

No data available pН 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 limitNo data availableLower flammability limitNo data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative densityNo data availableNone known

Water Solubility Insoluble in water

Solubility(ies) No data available None known

Partition coefficient: n-octanol/water0

Autoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone 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. 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 eye

irritation. (based on components). Irritating to eyes.

Skin contact Specific test data for the substance or mixture is not available. May cause sensitization by

skin contact. Toxic in contact with skin. Causes skin irritation. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion Specific test data for the substance or mixture is not available. 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) 2,078.00 mg/kg
ATEmix (dermal) 453.00 mg/kg
ATEmix (inhalation-gas) 9,991.00 mg/L
ATEmix (inhalation-dust/mist) 5.01 mg/L
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 (dust/mist)

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------|---------------------|-------------------|-----------------------|
| Ci 77266 | > 15400 mg/kg (Rat) | > 3 g/kg (Rabbit) | - |
| Nickel | > 9000 mg/kg (Rat) | - | > 10.2 mg/L (Rat) 1 h |
| 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. Irritating to eyes.

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 (CoLiO2) 12190-79-3 | A3 | Group 2B | Reasonably Anticipated | X |
| Ci 77266 1333-86-4 | A3 | Group 2B | - | X |
| Nickel 7440-02-0 | - | Group 2B | Reasonably Anticipated | X |
| Propylene imine 75-55-8 | A3 | 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 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 | 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) | | |
| 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.

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) 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

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Note: The transportation of primary lithium cells and batteries is regulated by the International

Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard

Passenger Aircraft; Final Rule)

Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision

188 of IMO-IMDG Code"

DOT NOT REGULATED

Proper Shipping Name NON-REGULATED

Hazard Class N/A Emergency Response Guide 147

Number

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A EmS-No. 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.

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 | | X | Х | |
| Nickel 7440-02-0 | | X | 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 | 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 |
| 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 | | | |
|---------------------------------|---|--|--|--|
| Ci 77266 - 1333-86-4 | carcinogen, 2/21/2003 (airborne, unbound particles of respirabl | | | |
| | size) | | | |
| 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 | X |
| Ci 77266 1333-86-4 | Х | X | Х | | Х |
| Aluminum 7429-90-5 | Х | X | Х | Х | |
| Copper 7440-50-8 | Х | X | Х | Х | Χ |
| Phosphate(1-), hexafluoro-, lithium 21324-40-3 | Х | | | | |
| Nickel 7440-02-0 | Х | X | Х | Х | Х |
| Propylene imine 75-55-8 | Х | X | Х | Х | Χ |

16. OTHER INFORMATION

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and Chemical

Properties -

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 09-Apr-2018

Revision Note 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

