

## 1. Identification

<b>Product identifier</b>	<b>Lithium Ion Battery (Lithium Iron Phosphate, LiFePO4)</b>	
<b>Other means of identification</b>		
<b>Synonyms</b>	Li ion Battery, including Battery Management System	
<b>Recommended use</b>	Electrick Lift and Forklift Equipment - Warehousing	
<b>Recommended restrictions</b>	None known.	
<b>Manufacturer/Importer/Supplier/Distributor information</b>		
<b>Manufacturer</b>	Navitas Systems	
<b>Address</b>	5949 Jackson Rd, Ann Arbor, MI 48103	
<b>Supplier</b>	Navitas Systems	
<b>Address</b>	5949 Jackson Rd, Ann Arbor, MI 48103	
<b>Telephone number</b>	(734) 205-1400	
<b>Contact person</b>	Navitas Systems EHS Department	
<b>Emergency telephone number</b>	USA/Canada: CHEMTREC (800) 424-9300, Outside USA 1 (703) 527-3887	
<b>E-mail</b>	dekareadypower@navitassys.com	

## 2. Hazard identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity following repeated exposure	Category 1

### Label elements



**Signal word** Danger

**Hazard statement** The materials contained in this product may only represent a hazard if the integrity of the cell or battery is compromised; physically, thermally, or electrically abused. The below are the hazards anticipated under those conditions:

Causes skin irritation. Causes serious eye irritation. Causes damage to organs ( ) through prolonged or repeated exposure.

### Precautionary statement

<b>Prevention</b>	Do not breathe dust. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.
<b>Response</b>	IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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. Get medical advice/attention if you feel unwell.
<b>Storage</b>	Store as indicated in Section 7.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

## Supplemental information

Under normal conditions of processing and use, exposure to the chemical constituents in this product is unlikely. The chemicals are contained in a sealed steel housing. Risk of exposure occurs only if the battery is mechanically, thermally or electrically abused. If this occurs, exposure to the electrolyte solution contained within can occur by Inhalation, Ingestion, eye contact and skin contact.

Additional Notes: CAUTION: Do not dispose in fire, mix with other battery types, charge above specified rate, connect improperly, or short circuit, which may result in overheating, explosion or leakage of cell contents. Do not open or disassemble. Do not puncture, deform or incinerate. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

## Other hazards

None known.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
LiFePO4		15365-14-7	30
Electrolyte solvent (Organic Solvents including one or more of the following: Ethylene Carbonate, Dimethyl Carbonate, Ethyl Methyl Carbonate, Diethyl Carbonate, Propyl Propionate, Propylene Carbonate		96-49-1, 616-38-6, 623-53-0, 105-58-8, 106-35-5, 108-32-7	10-30
Aluminium		7429-90-5	18
Copper		7440-50-8	18
Graphite		7782-42-5	15
Lithium hexafluorophosphate		21324-40-3	2
Carbon Black		1333-86-4	1

This product is an article.

### Composition comments

The exact concentrations of the above listed chemicals are being withheld as a trade secret. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

### Inhalation

Exposure to contents of an open or damaged battery: Move to fresh air. Get medical attention if any discomfort continues.

### Skin contact

Exposure to contents of an open or damaged battery: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation occurs, get medical advice/attention. Remove contaminated clothing.

### Eye contact

Exposure to contents of an open or damaged battery: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation develops and persists.

### Ingestion

Exposure to contents of an open or damaged battery: Rinse mouth thoroughly. Get medical attention if any discomfort occurs.

### Most important symptoms/effects, acute and delayed

Exposure to contents of an open or damaged battery: Causes severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes skin irritation. May cause redness and pain.

### Indication of immediate medical attention and special treatment needed

Treat symptomatically.

### General information

Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

### Suitable extinguishing media

Dry chemical powder (ABC). Carbon dioxide (CO2). Foam.

### Unsuitable extinguishing media

None known.

### Specific hazards arising from the chemical

Containers can burst violently when heated, due to excess pressure build-up. Fire may produce irritating, corrosive and/or toxic gases. During water application, caution is advised as burning pieces of flammable particles may be ejected from the fire. Carbon oxides (COx). Hydrogen Fluoride.

<b>Special protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective clothing.
<b>Fire fighting equipment/instructions</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Specific methods</b>	In the event of fire do not breathe fumes. Copious amounts of cold water or water-based foam may be used to cool burning cells or batteries.
<b>General fire hazards</b>	The product is not flammable. Will burn if involved in a fire.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing dust/fume/vapours. Leak from a damaged or opened battery: Avoid contact with skin and eyes.
<b>Methods and materials for containment and cleaning up</b>	Leak from a damaged or opened battery: Wipe up with absorbent material (e.g. cloth, fleece). Place in a designated labeled waste container, dispose in accordance with local regulations.
<b>Environmental precautions</b>	Do not contaminate water sources or sewer.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Batteries are designed to be recharged. However, improperly charging a cell or battery may cause the product to flame or leak. Use only approved chargers and procedures. Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure and fire. CAUTION: Do not dispose in fire, mix with other battery types, charge above specified rate, connect improperly, or short circuit, which may result in overheating, explosion or leakage of cell contents. Do not open, disassemble, crush or burn battery. Do not expose battery to extreme heat or fire. Extended short-circuiting creates high temperatures in the cell. High temperatures can cause burns in skin or cause the cell to fume. Avoid reversing the battery polarity within the battery assembly. To do so may cause the cell to flame or leak. Observe good industrial hygiene practices. Wash hands thoroughly after handling.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep out of reach of children. Batteries should be separated from other materials and stored in a non-combustible, well ventilated structure with sufficient clearance between walls and battery stacks. Do not place batteries near heating equipment. Store in a cool, dry place. Do not store batteries in a manner that allows terminals to short circuit. Store away from incompatible materials (See Section 10). Store batteries in a cool dry ventilated area that is subject to little temperature change. Do not place batteries near heating equipment or expose to direct sunlight for long periods.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.
Copper (CAS 7440-50-8)	TWA	1 mg/m <sup>3</sup>	Dust and mist.
		0.2 mg/m <sup>3</sup>	Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.
Lithium hexafluorophosphate (CAS 21324-40-3)	TWA	2.5 mg/m <sup>3</sup>	

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	5 mg/m <sup>3</sup>	Pyrophoric powder.
		10 mg/m <sup>3</sup>	Dust.
Carbon Black (CAS 1333-86-4)	TWA	3.5 mg/m <sup>3</sup>	
Copper (CAS 7440-50-8)	TWA	1 mg/m <sup>3</sup>	Dust and mist.
		0.2 mg/m <sup>3</sup>	Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m <sup>3</sup>	Respirable.

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

Components	Type	Value	Form
Lithium hexafluorophosphate (CAS 21324-40-3)	TWA	2.5 mg/m <sup>3</sup>	

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m <sup>3</sup>	Respirable.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable
Copper (CAS 7440-50-8)	TWA	1 mg/m <sup>3</sup>	Dust and mist.
		0.2 mg/m <sup>3</sup>	Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m <sup>3</sup>	Respirable.
Lithium hexafluorophosphate (CAS 21324-40-3)	TWA	2.5 mg/m <sup>3</sup>	

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.
Copper (CAS 7440-50-8)	TWA	1 mg/m <sup>3</sup>	Dust and mist.
		0.2 mg/m <sup>3</sup>	Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.
Lithium hexafluorophosphate (CAS 21324-40-3)	TWA	2.5 mg/m <sup>3</sup>	

**Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3.5 mg/m <sup>3</sup>	
Graphite (CAS 7782-42-5)	TWA	2 mg/m <sup>3</sup>	Respirable.
Lithium hexafluorophosphate (CAS 21324-40-3)	TWA	2.5 mg/m <sup>3</sup>	

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.
Copper (CAS 7440-50-8)	TWA	1 mg/m <sup>3</sup>	Dust and fume.
		0.2 mg/m <sup>3</sup>	Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.
Lithium hexafluorophosphate (CAS 21324-40-3)	TWA	2.5 mg/m <sup>3</sup>	

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)**

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	5 mg/m <sup>3</sup>	Welding fume.
		10 mg/m <sup>3</sup>	

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable dust.
Copper (CAS 7440-50-8)	TWA	1 mg/m3 0.2 mg/m3	Dust and mist. Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable dust.
Lithium hexafluorophosphate (CAS 21324-40-3)	TWA	2.5 mg/m3	

**Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	15 minute	7 mg/m3	
	8 hour	3.5 mg/m3	
Copper (CAS 7440-50-8)	15 minute	3 mg/m3 0.6 mg/m3	Dust and mist. Fume.
	8 hour	1 mg/m3 0.2 mg/m3	Dust and mist. Fume.
Graphite (CAS 7782-42-5)	15 minute	4 mg/m3	Respirable fraction.
	8 hour	2 mg/m3	Respirable fraction.
Lithium hexafluorophosphate (CAS 21324-40-3)	15 minute	5 mg/m3	
	8 hour	2.5 mg/m3	

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Lithium hexafluorophosphate (CAS 21324-40-3)	3 mg/l	Fluoride	Urine	*
	2 mg/l	Fluoride	Urine	*

\* - For sampling details, please see the source document.

**Appropriate engineering controls**

Under conditions of normal use, batteries do not emit hazardous or regulated substances. .No engineering controls are required for handling batteries that have not been damaged.

Leak from a damaged or opened battery: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection**

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection**

None under normal conditions.

Leak from a damaged or opened battery: Use an approved respirator if there is a risk of exposure to dust at levels exceeding the exposure limits. In the event of a fire, wear SCBA and thermally protective outer garments.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**9. Physical and chemical properties****Appearance**

**Physical state** Solid.

**Form** Battery.

**Colour** Not available.

**Odour** Not available.

**Odour threshold** Not available.

**pH** Not known.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Do not puncture, deform, incinerate or heat above 85 C or (185 F)

**Flash point** Do not puncture, deform, incinerate or heat above 85 C or (185 F)

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

**Explosive limit - lower (%)** Not available.

**Explosive limit – upper (%)** Not available.

**Vapour pressure** Not available.

**Vapour density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Other information**

**Explosive properties** Not explosive.

**Oxidising properties** Not oxidising.

**10. Stability and reactivity**

**Reactivity** The product is non-reactive under normal conditions of use, storage and transport.

**Chemical stability** The product is stable under normal conditions of use, storage and transport.

**Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure and fire. Do not puncture, deform, or incinerate. Heat, sparks, flames, elevated temperatures.

**Incompatible materials** Do not immerse in seawater or other high conductivity liquids.

**Hazardous decomposition products** Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Carbon oxides. Hydrogen fluoride.

**11. Toxicological information****Information on likely routes of exposure**

**Inhalation** No inhalation hazard under normal conditions. Exposure to contents of an open or damaged battery: Dust may irritate respiratory system. Prolonged inhalation may be harmful.

**Skin contact** Exposure to contents of an open or damaged battery: Causes skin irritation.

<b>Eye contact</b>	Under normal conditions of intended use, this product does not pose an eye hazard. In the event that cell or battery is damaged, open, or leaking – irritation with injury resulting in permanent impairment of vision and chemical burn may occur.
<b>Ingestion</b>	Exposure to contents of an open or damaged battery: May be harmful if swallowed. May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Exposure to contents of an open or damaged battery: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

**Information on toxicological effects**

**Acute toxicity** Not known.

Components	Species	Test Results
Dimethyl carbonate (CAS 616-38-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Oral</b>		
LD50	Rat	13000 mg/kg
Propylene carbonate (CAS 108-32-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg

**Skin corrosion/irritation** Exposure to contents of an open or damaged battery: Irritating to skin.

**Serious eye damage/eye irritation** Exposure to contents of an open or damaged battery: Causes serious eye irritation.

**Respiratory or skin sensitisation**

**Canada - Alberta OELs: Irritant**

Aluminium (CAS 7429-90-5) Irritant

**Respiratory sensitisation** Not a respiratory sensitiser.

**Skin sensitisation** Exposure to contents of an open or damaged battery: Not expected to be a skin sensitizer.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Exposure to contents of an open or damaged battery: Risk of cancer cannot be excluded with prolonged exposure.

**ACGIH Carcinogens**

Aluminium (CAS 7429-90-5) A4 Not classifiable as a human carcinogen.  
Carbon Black (CAS 1333-86-4) A3 Confirmed animal carcinogen with unknown relevance to humans.  
Lithium hexafluorophosphate (CAS 21324-40-3) A4 Not classifiable as a human carcinogen.

**Canada - Manitoba OELs: carcinogenicity**

Aluminium (CAS 7429-90-5) Not classifiable as a human carcinogen.  
Carbon Black (CAS 1333-86-4) Confirmed animal carcinogen with unknown relevance to humans.  
Lithium hexafluorophosphate (CAS 21324-40-3) Not classifiable as a human carcinogen.

**Canada - Quebec OELs: Carcinogen category**

Carbon Black (CAS 1333-86-4) Detected carcinogenic effect in animals.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Carbon Black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Carbon Black (CAS 1333-86-4) Known To Be Human Carcinogen.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

<b>Specific target organ toxicity - repeated exposure</b>	Exposure to contents of an open or damaged battery: Causes damage to organs ( ) through prolonged or repeated exposure.  Lithium hexafluorophosphate (CAS# 21324-40-3): Causes damage to organs (bone, teeth) through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure.
<b>Further information</b>	Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure:

## 12. Ecological information

**Ecotoxicity** No ecological impacts expected under normal use conditions. The hazards listed below are only anticipated when the integrity of a battery casing is compromised:  
Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Components	Species	Test Results
Copper (CAS 7440-50-8)		
<b>Aquatic</b>		
<i>Chronic</i>		
Other	NOEC	Juga plicifera
		6 µg/l
Graphite (CAS 7782-42-5)		
<b>Aquatic</b>		
Fish	LC50	Oncorhynchus mykiss
		> 1000 mg/l

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential**

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Recycle the batteries as the primary disposal method. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose in accordance with local regulations. This product and its container must be disposed of in a safe manner.

**Contaminated packaging** If contaminated by a leaking or damaged battery, empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### TDG

<b>UN number</b>	UN3480
<b>UN proper shipping name</b>	Lithium Ion Batteries
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	The battery as shipped would not be a Marine Pollutant / Environmentally hazardous.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### IATA

<b>UN number</b>	UN3480
<b>UN proper shipping name</b>	Lithium Ion Batteries
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	9
<b>Packing group</b>	II



**Environmental hazards** The battery as shipped would not be a Marine Pollutant / Environmentally hazardous.  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### IMDG

**UN number** UN3480  
**UN proper shipping name** Lithium Ion Batteries  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Label(s)** 9A  
**Packing group** II  
**Environmental hazards**  
**Marine pollutant** The battery as shipped would not be a Marine Pollutant / Environmentally hazardous.  
**EmS** F-A, S-I  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

#### Controlled Drugs and Substances Act

Not regulated.

#### Export Control List (CEPA 1999, Schedule 3)

Not listed.

#### Greenhouse Gases

Not listed.

#### Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Aluminium (CAS 7429-90-5)

Copper (CAS 7440-50-8)

#### Precursor Control Regulations

Not regulated.

#### International regulations

##### Stockholm Convention

Not applicable.

##### Rotterdam Convention

Not applicable.

##### Kyoto Protocol

Not applicable.

##### Montreal Protocol

Not applicable.

##### Basel Convention

Lithium hexafluorophosphate (CAS 21324-40-3)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

**Issue date** 09-December-2021

**Revision date** -

**Version No.** 01

**List of abbreviations**

LD50: Lethal Dose 50%.  
LC50: Lethal Concentration 50%.

**References**

IARC Monographs. Overall Evaluation of Carcinogenicity  
Registry of Toxic Effects of Chemical Substances (RTECS)

**Disclaimer**

The information in this SDS was obtained from sources which we believe are reliable, but no warranty or representation as to its accuracy or completeness is hereby given. Users should consider the information herein only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal, the safety and health of employees and customers and the protection of the environment.