# SAFETY DATA SHEET



1. Identification

Product identifier Lithium Ion Battery (4780-0, 4780-1)

Other means of identificationNot available.Recommended useSealed batteryRecommended restrictionsNone known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Nu-Calgon

Address 2611 Schuetz Road

St. Louis, MO 63043

**United States** 

**Telephone** 314-469-7000 / 800-554-5499

E-mail Not available.

Emergency phone number 1-800-424-9300 (CHEMTREC)

**Supplier** See above.

2. Hazard identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

WHMIS 2015 defined hazards Not classified

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

Response Wash hands after handling.

**Storage** Store away from incompatible materials.

None known

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

WHMIS 2015: Health Hazard(s) not otherwise classified

(HHNOC)

WHMIS 2015: Physical None Hazard(s) not otherwise

classified (PHNOC)

Hazard(s) not otherwise classified (HNOC)

None known

None known.

**Supplemental information** This product is a manufactured article and is exempt.

US: As per OSHA, 1910.1200(b)(6)(v), articles are not regulated under HCS 2012. As per OSHA Definitions: 1910.1200 (c). Article means a manufactured item other than a fluid or

particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

CANADA: As per the Hazardous Products Act: A manufactured article means any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, when being installed, if the intended use of the article requires it to be installed, and under normal conditions of use, will not release or otherwise cause an individual to be exposed to a hazardous product.

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#### **Mixture Chemical name** % Common name and synonyms CAS number 1-5\* 7429-90-5 Aluminum Carbonic Acid, Ethyl Methyl Ester 623-53-0 10-30\* 30-60\* Cobalt Lithium Manganese Nickel 182442-95-1 Oxide 7440-50-8 5-10\* Copper **Ethylene Carbonate** 96-49-1 10-30\* 7782-42-5 10-30\* Graphite Phosphate(1-), Hexafluoro-, Lithium 21324-40-3 10-30\*

3. Composition/Information on ingredients

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** 

\*This composition applies to the cell of the battery

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

\*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

**Inhalation** Not a normal route of exposure.

Inhalation of the ruptured battery vapors may be corrosive to the upper airways, cause a burning sensation in the nose, mouth and throat as well as leading to sneezing, coughing, breathing

difficulties and chest pain.

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Skin contact** Not a normal route of exposure.

Direct contact with the ruptured battery may cause chemical burns.

Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation

persists.

**Eve contact** Not a normal route of exposure.

Direct contact with the ruptured battery may cause chemical burns.

Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for

15 minutes. Obtain medical attention immediately.

**Ingestion** Not a normal route of exposure.

Direct contact with the ruptured battery may cause chemical burns.

Direct contact with the ruptured battery may cause chemical burns.

Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical

attention.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Symptoms may be delayed.

**General information**If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show

personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber

gloves and chemical splash goggles. Keep out of reach of children.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Dry chemical. Dry sand. Carbon dioxide.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Battery may burst and release hazardous decomposition products when exposed to a fire

situation. Some may burn but not ignite readily. Containers may explode when heated. Some may

be transported hot.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self-contained breathing apparatus.

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous combustion

No unusual fire or explosion hazards noted.

products

May include and are not limited to: Oxides of carbon. Oxides of lithium. Oxides of phosphorus.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

In the case of a leaking battery: Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

**Environmental precautions** 

Do not discharge into lakes, streams, ponds or public waters.

# 7. Handling and storage

### Precautions for safe handling

Do not puncture or incinerate container. Avoid short-circuiting the battery. Avoid mechanical damage to the battery. Do not open or disassemble. Battery may explode or cause burns if disassembled, crushed or exposed to fire or high temperatures. Do not install with incorrect polarity Do not immerse in liquids. Use good industrial hygiene practices in handling this material.

Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Keep this material away from food, drink and animal feed. Keep away from heat, sparks, and flame. Store in a cool dry place below 30°C (86°F) Do not store below -20°C.

	B. Exposure controls/Pers	sonal protection	
upational exposure limits			
Canada. Alberta OELs (Occupation	nal Health & Safety Code, Sche	edule 1, Table 2)	
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3	Pyrophoric powder.
		10 mg/m3	Dust.
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable.
Canada. British Columbia OELs. (6 Safety Regulation 296/97, as amen		for Chemical Substances, Oc	cupational Health and
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable.
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
,		0.2 mg/m3	Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable.
	12006 The Workshop Sefety A	•	-
Canada. Manitoba OELs (Reg. 217 Components	Type	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
Coppo. (C/.C 1 1 10 00 0)		0.2 mg/m3	Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Canada. Ontario OELs. (Control of	Exposure to Biological or Che	emical Agents)	
Components	Type	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
,		0.2 mg/m3	Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Canada. Quebec OELs. (Ministry o	f Labor - Regulation respecting	g occupational health and sat	fetv)
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3	Welding fume.
•		10 mg/m3	-
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
,		0.2 mg/m3	Fume.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable dust.
Canada. Saskatchewan OELs (Occ	cupational Health and Safetv R	egulations, 1996. Table 21)	
Components	Type	Value	Form
Aluminum (CAS 7429-90-5)	15 minute	20 mg/m3	Dust.
(= =====)		g	

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Canada. Saskatchewan OELs (Occupat Components	Туре	Value	Form
		10 mg/m3	Pyrophoric powder.
	8 hour	5 mg/m3 10 mg/m3	Pyrophoric powder. Dust.
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.
US. OSHA Table Z-1 Limits for Air Cont Components	aminants (29 CFR 1910.10 Type	00) Value	Form
Aluminum (CAS 7429-90-5)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
Cobalt Lithium Manganese Nickel Oxide (CAS 182442-95-1)	Ceiling	5 mg/m3	
Copper (CAS 7440-50-8)	PEL	1 mg/m3 0.1 mg/m3	Dust and mist. Fume.
Graphite (CAS 7782-42-5)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
US. OSHA Table Z-3 (29 CFR 1910.1000 Components	) Type	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3 15 mg/m3 50 mppcf 15 mppcf	Respirable fraction. Total dust. Total dust. Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
US. ACGIH Threshold Limit Values Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
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 fraction.
US. NIOSH: Pocket Guide to Chemical	Hazards		
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3 5 mg/m3	Respirable. Welding fume or pyrophoric powder.
		10 mg/m3	Total
Cobalt Lithium Manganese Nickel Oxide (CAS 182442-95-1)	STEL	3 mg/m3	Fume.
Copper (CAS 7440-50-8)	TWA	1 mg/m3 0.1 mg/m3	Dust and mist. Fume.
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m3	Respirable.
ogical limit values			
ACGIH Biological Exposure Indices Components Value	Determinant	Specimen Sampling Ti	ime
 Cobalt Lithium Manganese 15 µg/l Nickel Oxide (CAS	Cobalt	Urine *	

<sup>\* -</sup> For sampling details, please see the source document.

# Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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.

Individual protection measures, such as personal protective equipment

Not normally required when used as directed. Safety glasses if eye contact is possible. Eye/face protection

Skin protection

Hand protection Not normally required when used as directed. Impervious gloves. Confirm with reputable supplier

first.

Other Wear appropriate chemical resistant clothing. As required by employer code.

Respiratory protection Not normally required if good ventilation is maintained.

Thermal hazards Not applicable.

Handle in accordance with good industrial hygiene and safety practice. General hygiene

considerations When using do not eat or drink.

# 9. Physical and chemical properties

Cylinder **Appearance** Solid. Physical state Solid. **Form** Not available. Color

Odorless

If leaking, smells of medical ether

**Odor threshold** Not available. Not available. рН Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

Odor

Pour point Not available. Not available. Specific gravity Not available. Partition coefficient

(n-octanol/water)

Flash point Not available. Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

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

Vapor pressure Not available. Vapor density Not available. Not available. Relative density Insoluble Solubility(ies) **Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

10. Stability and reactivity

Reaction with water or moist air will release toxic, corrosive or flammable gases. Reactivity

Possibility of hazardous

reactions

**Viscosity** 

Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Not available

Conditions to avoid Heat, open flames, static discharge, sparks and other ignition sources. Humid air. Exposure to

water or water vapor. Avoid direct sunlight. High temperatures.

Incompatible materials Strong acids. Strong oxidizing agents. Conductive materials. Seawater.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Oxides of lithium. Oxides of phosphorus.

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4780-0, 4780-1 (Canada/US GHS)

# 11. Toxicological information

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Information on likely routes of exposure

**Ingestion** Direct contact with the ruptured battery may cause chemical burns.

**Inhalation** No adverse effects due to inhalation are expected.

Inhalation of the ruptured battery vapors may be corrosive to the upper airways, cause a burning sensation in the nose, mouth and throat as well as leading to sneezing, coughing, breathing

difficulties and chest pain.

**Skin contact** Direct contact with the ruptured battery may cause chemical burns.

**Eye contact** Direct contact with the ruptured battery may cause chemical burns. May cause blindness.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with the ruptured battery may cause chemical burns.

# Information on toxicological effects

**Acute toxicity** 

LC50

omponents Species		Test Results	
Aluminum (CAS 7429-90-5)			
Acute			
Dermal			
LD50	Not available		
Inhalation			
LC50	Rat	> 0.9 mg/L, 4 Hours, ECHA	
Oral			
LD50	Rat	> 2000 mg/kg, ECHA	
Copper (CAS 7440-50-8)			
Acute			
Dermal			
LD50	Rat	> 2000 mg/kg, ECHA	
Inhalation			
LC50	Rat	> 5.1 mg/l/4h, ECHA	
Oral			
LD50	Rat	300 - 500 mg/kg, ECHA	
Ethylene Carbonate (CAS 9	6-49-1)		
Acute			
Dermal			
LD50	Rat	> 2000 mg/kg, 24 Hours, ECHA	
Inhalation			
LC50	Rat	> 730 mg/m3, 8 Hours, ECHA	
Oral			
LD50	Rat	10400 mg/kg, ECHA	
Graphite (CAS 7782-42-5)			
Acute			
Dermal			
LD50	Not available		
Inhalation			
LC50	Rat	> 2000 mg/m3, 4 Hours, ECHA	
Oral			
LD50	Rat	> 2000 mg/kg, ECHA	
Phosphate(1-), Hexafluoro-,	Lithium (CAS 21324-40-3)		
Acute			
Dermal			
LD50	Not available		
Inhalation			
1.050	A1 ( 21 1 1		

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Not available

Components **Species Test Results** 

Oral

LD50 50 - 300 mg/kg, ECHA Rat

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Not available. **Exposure minutes** Erythema value Not available. Oedema value Not available.

Serious eye damage/eye

irritation

Direct contact with the electrolyte may cause chemical burns.

Corneal opacity value Not available. Not available. Iris lesion value Conjunctival reddening Not available.

value

Not available. Conjunctival oedema value Recover days Not available.

Respiratory or skin The finished product is not expected to have chronic health effects.

sensitization

**ACGIH** sensitization

Cobalt and inorganic compounds, as Co (CAS Dermal sensitization

182442-95-1)

Respiratory sensitization

Confirmed animal carcinogen with unknown relevance to humans.

Canada - Alberta OELs: Irritant

Aluminum (CAS 7429-90-5) Irritant

Canada - Manitoba OELs Hazard: Dermal sensitization

Cobalt Lithium Manganese Nickel Oxide (CAS Dermal sensitization

182442-95-1)

Canada - Manitoba OELs Hazard: Respiratory sensitization

Cobalt Lithium Manganese Nickel Oxide (CAS Respiratory sensitization

182442-95-1)

Respiratory sensitization The finished product is not expected to have chronic health effects. Skin sensitization The finished product is not expected to have chronic health effects. The finished product is not expected to have chronic health effects. Mutagenicity

The finished product is not expected to have chronic health effects. See below. Carcinogenicity

**ACGIH Carcinogens** 

Cobalt Lithium Manganese Nickel Oxide (CAS A3 Confirmed animal carcinogen with unknown relevance to humans.

182442-95-1)

California Proposition 65 - CRT: Listed date/Carcinogenic substance Cobalt Lithium Manganese Nickel Oxide (CAS 182442-95-1)

Canada - Manitoba OELs: carcinogenicity

Cobalt Lithium Manganese Nickel Oxide (CAS 182442-95-1)

Canada - Quebec OELs: Carcinogen category

Cobalt Lithium Manganese Nickel Oxide (CAS Detected carcinogenic effect in animals.

182442-95-1)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

US NTP Report on Carcinogens: Anticipated carcinogen

Cobalt Lithium Manganese Nickel Oxide (CAS Reasonably Anticipated to be a Human Carcinogen.

182442-95-1)

US NTP Report on Carcinogens: Known carcinogen

Cobalt Lithium Manganese Nickel Oxide (CAS Known To Be Human Carcinogen.

182442-95-1)

The finished product is not expected to have chronic health effects. Reproductive toxicity The finished product is not expected to have chronic health effects. **Teratogenicity** 

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not available. **Aspiration hazard** 

12. Ecological information	ì
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		12. Ecological information	
Ecotoxicity	See below		
Ecotoxicological data			
Components		Species	Test Results
Aluminum (CAS 7429-90-5)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.16 mg/L, 96 hours
Copper (CAS 7440-50-8)			
Algae	IC50	Algae	0.048 mg/L, 72 Hours
Crustacea	EC50	Daphnia	0.03 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.036 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.032 - 0.054 mg/L, 96 hours
Persistence and degradability	No data is a	vailable on the degradability of this product.	
Bioaccumulative potential	No data ava	ilable.	
Mobility in soil	No data ava	ilable.	
Mobility in general	Not available	e.	
Other adverse effects		verse environmental effects (e.g. ozone depl docrine disruption, global warming potential)	
		13. Disposal considerations	
Disposal instructions		reclaim or dispose in sealed containers at lic with all applicable regulations.	ensed waste disposal site. Dispose in
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		in accordance with local regulations. Empty containers or liners may retain some	

products

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

# 14. Transport information

**Transport of Dangerous Goods** (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the

product will appear below.

General

Canada: See special provisions to determine the packaging requirements and exemptions for

shipping lithium batteries.

US: See special provisions to determine the packaging requirements and exemptions for shipping lithium batteries.

### U.S. Department of Transportation (DOT)

**Basic shipping requirements:** 

**UN** number UN3480/UN3481

Lithium ion batteries including lithium ion polymer batteries/Lithium ion batteries packed with Proper shipping name

equipment including lithium ion polymer batteries

Hazard class Yes Marine pollutant

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

**UN number** UN3480/UN3481

Proper shipping name LITHIUM ION BATTERIES (including lithium ion polymer batteries)/LITHIUM ION BATTERIES

CONTAINED IN EQUIPMENT (including lithium ion polymer batteries);

**Hazard class** 



# 15. Regulatory information

#### Canadian federal regulations

This product is a manufactured article and is exempt.

As per the Hazardous Products Act: A manufactured article means any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, when being installed, if the intended use of the article requires it to be installed, and under normal conditions of use, will not release or otherwise cause an individual to be exposed to a hazardous product.

#### Canada CEPA Schedule I: Listed substance

Aluminum (CAS 7429-90-5) Listed.
Graphite (CAS 7782-42-5) Listed.
Canada Priority Substances List (Second List): Listed substance

Aluminum (CAS 7429-90-5) Listed. Graphite (CAS 7782-42-5) Listed.

Canada SNAc Reporting Requirements: Listed substance/Publication date

Cobalt Lithium Manganese Nickel Oxide (CAS

182442-95-1)

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

WHMIS 2015 Exemptions

Not applicable

**US federal regulations** 

This product is a manufactured article and is exempt.

As per OSHA Definitions: 1910.1200 (c). Article means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this

section), and does not pose a physical hazard or health risk to employees.

01/21/2012 Listed.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Cobalt Lithium Manganese Nickel Oxide (CAS

0.1 % One-Time Export Notification only.

182442-95-1)

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Copper (CAS 7440-50-8) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely

hazardous substance SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 Aluminum
 7429-90-5
 1-5\*

 Copper
 7440-50-8
 5-10\*

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130) Hazardous substance Priority pollutant Toxic pollutant

#### **US** state regulations

# US - California Hazardous Substances (Director's): Listed substance

 Aluminum (CAS 7429-90-5)
 Listed.

 Copper (CAS 7440-50-8)
 Listed.

 Graphite (CAS 7782-42-5)
 Listed.

### **US - Illinois Chemical Safety Act: Listed substance**

Copper (CAS 7440-50-8)

### US - Louisiana Spill Reporting: Listed substance

Copper (CAS 7440-50-8) Listed.

# **US - Michigan Critical Materials Register: Parameter number**

Cobalt Lithium Manganese Nickel Oxide (CAS 182442-95-1)

Copper (CAS 7440-50-8)

#### **US - Minnesota Haz Subs: Listed substance**

 Aluminum (CAS 7429-90-5)
 Listed.

 Copper (CAS 7440-50-8)
 Listed.

 Graphite (CAS 7782-42-5)
 Listed.

# **US - North Carolina Toxic Air Pollutants: Listed substance**

Cobalt Lithium Manganese Nickel Oxide (CAS 182442-95-1)

### US - Texas Effects Screening Levels: Listed substance

Aluminum (CAS 7429-90-5)

Copper (CAS 7440-50-8)

Ethylene Carbonate (CAS 96-49-1)

Graphite (CAS 7782-42-5)

Phosphate(1-), Hexafluoro-, Lithium (CAS 21324-40-3)

Listed.

Listed.

#### US - Washington Chemical of High Concern to Children: Listed substance

Cobalt Lithium Manganese Nickel Oxide (CAS 182442-95-1)

#### **US. Massachusetts RTK - Substance List**

Aluminum (CAS 7429-90-5)

Copper (CAS 7440-50-8) Ethylene Carbonate (CAS 96-49-1)

Graphite (CAS 7782-42-5)

## US. New Jersey Worker and Community Right-to-Know Act

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8) Graphite (CAS 7782-42-5)

# US. Pennsylvania Worker and Community Right-to-Know Law

Aluminum (CAS 7429-90-5)

Cobalt Lithium Manganese Nickel Oxide (CAS 182442-95-1)

Copper (CAS 7440-50-8)

Ethylene Carbonate (CAS 96-49-1)

Graphite (CAS 7782-42-5)

# **US. Rhode Island RTK**

Aluminum (CAS 7429-90-5) Copper (CAS 7440-50-8)

Graphite (CAS 7782-42-5)

# **US. California Proposition 65**

United States & Puerto Rico

This component is listed on Prop 65 under the category Nickel Compounds - May 7, 2004



**WARNING:** This product can expose you to Nickel compounds, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Cobalt Lithium Manganese Nickel Oxide (CAS Listed: May 7, 2004 182442-95-1)

#### Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

Yes

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

Toxic Substances Control Act (TSCA) Inventory

# 16. Other information

1

0

0

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

**HEALTH FLAMMABILITY PHYSICAL HAZARD PERSONAL PROTECTION** 



Disclaimer

Issue date

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Nu-Calgon Technical Service Phone: (314) 469-7000 Prepared by

**Further information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.