


## 1. Identification

<b>Product identifier</b>	<b>Lithium Iron Phosphate (LiFePO4) Battery or Cell</b>
<b>Other means of identification</b>	None.
<b>Recommended use</b>	Battery for electric lift-truck, mobility & package handling equipment
<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>	(855) 739-7697
<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(s) identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Specific target organ toxicity, repeated exposure	Category 1 (bone, teeth)
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 3
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		

**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. May cause an allergic skin reaction. Causes serious eye damage. Causes damage to organs (bone, teeth) through prolonged or repeated exposure. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

### Precautionary statement

**Prevention** Keep out of reach of children. 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. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment.

**Response** If on skin: Wash with plenty of water. If skin irritation or rash 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. Immediately call a poison center/doctor. Get medical advice/attention if you feel unwell. Collect spillage.

<b>Storage</b>	Store as indicated in Section 7.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not puncture, deform, incinerate or heat above 85°C (185°F).

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
LiFePO4	15365-14-7	58 - < 63
Aluminium	7429-90-5	31 - < 36
Graphite	7782-42-5	28 - < 33
Copper	7440-50-8	27 - < 32
Electrolyte solvent (Organic Solvents including one or more of the following:: Ethylene Carbonate, Dimethyl Carbonate, Ethyl Methyl Carbonate, Propyl Acetate, Vinylene Carbonate	96-49-1, 616-38-6, 623-53-0, 109-60-4, 872-36-6	15 - 19
Lithium hexafluorophosphate	21324-40-3	2 - 3

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

This product is an article.

**Composition comments** The manufacturer has claimed the exact percentage as trade secret under the OSHA Hazard Communication Standard.

### 4. First-aid measures

<b>Inhalation</b>	Exposure to contents of an open or damaged battery: Move to fresh air. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Exposure to contents of an open or damaged battery: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eye contact</b>	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 immediately.
<b>Ingestion</b>	Exposure to contents of an open or damaged battery: Rinse mouth thoroughly. Get medical attention if any discomfort occurs.
<b>Most important symptoms/effects, acute and delayed</b>	Exposure to contents of an open or damaged battery: Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Causes skin irritation. May cause redness and pain. May cause allergic skin reaction. Rash. Dermatitis.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

**Suitable extinguishing media** Dry chemical powder.  
SPECIFIC RECOMMENDATIONS. Class D fire extinguisher.

<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Specific hazards arising from the chemical</b>	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>	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing dust/fume/vapors. 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 as hazardous waste.
<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). Do not store batteries above 60°C (140°F) or below -20°C (-4°F). Store batteries in a cool (below 25°C (77°F)), dry area that is subject to little temperature change. Battery exposure to temperatures in excess of 130°C (266°F) will result in the battery venting flammable liquid and gasses.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
Graphite (CAS 7782-42-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
n-propyl acetate (CAS 109-60-4)	PEL	840 mg/m3	
		200 ppm	

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	5 mg/m3	Respirable fraction.

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

Components	Type	Value	Form
		15 mg/m <sup>3</sup>	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	15 mppcf	

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m <sup>3</sup>	Respirable 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.
n-propyl acetate (CAS 109-60-4)	STEL	150 ppm	
	TWA	100 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	5 mg/m <sup>3</sup>	Welding fume or pyrophoric powder.
		5 mg/m <sup>3</sup>	Respirable.
		10 mg/m <sup>3</sup>	Total
Copper (CAS 7440-50-8)	TWA	1 mg/m <sup>3</sup>	Dust and mist.
		0.1 mg/m <sup>3</sup>	Fume.
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m <sup>3</sup>	Respirable.
n-propyl acetate (CAS 109-60-4)	STEL	1050 mg/m <sup>3</sup>	
		250 ppm	
	TWA	840 mg/m <sup>3</sup>	
		200 ppm	

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**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 Occupational Exposure Limit (OEL), 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.

**Skin protection****Other**

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

<b>Respiratory protection</b>	None under normal conditions.
	Leak from a damaged or opened battery: Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. In the event of a fire, wear SCBA and thermally protective outer garments.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	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

<b>Physical state</b>	Solid.
<b>Form</b>	Battery.
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not Known.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Do not puncture, deform, incinerate or heat above 85 C or (185 F)
<b>Flash point</b>	Do not puncture, deform, incinerate or heat above 85 C or (185 F)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
	Damaged non-discharged batteries contain elemental Lithium that is water reactive. This reaction gives off heat and hydrogen gas.
<b>Chemical stability</b>	The product is stable under normal conditions of use, storage and transport.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

<b>Conditions to avoid</b>	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, incinerate or heat above 85 C or (185 F). Heat, sparks, flames, elevated temperatures.
<b>Incompatible materials</b>	It is not recommended that this product be stored above 60°C (140°F). Do not immerse in seawater or other high conductivity liquids.
<b>Hazardous decomposition products</b>	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

<b>Inhalation</b>	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.
<b>Skin contact</b>	Exposure to contents of an open or damaged battery: Causes skin irritation. May cause an allergic skin reaction.
<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. Permanent eye damage or blindness could result.
<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 damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
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### Information on toxicological effects

<b>Acute toxicity</b>	Not known.
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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

<b>Skin corrosion/irritation</b>	Exposure to contents of an open or damaged battery: Irritating to skin.
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<b>Serious eye damage/eye irritation</b>	Exposure to contents of an open or damaged battery: Causes serious eye damage.
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### Respiratory or skin sensitization

<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	Exposure to contents of an open or damaged battery: May cause an allergic skin reaction.

<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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<b>Carcinogenicity</b>	Exposure to contents of an open or damaged battery: Risk of cancer cannot be excluded with prolonged exposure.
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#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### NTP Report on Carcinogens

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
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<b>Specific target organ toxicity - single exposure</b>	Not classified.
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**Specific target organ toxicity - repeated exposure** Exposure to contents of an open or damaged battery: Causes damage to organs (bone, teeth) through prolonged or repeated exposure.

Lithium hexafluorophosphate (CAS# 21324-40-3): Causes damage to organs (bone, teeth) through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** 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

#### Partition coefficient n-octanol / water (log Kow)

n-propyl acetate (CAS 109-60-4) 1.23

**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 of 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

### DOT

**UN number** UN3480

**UN proper shipping name** Lithium Battery

#### Transport hazard class(es)

**Class** 9

**Subsidiary risk** -

**Label(s)** 9

**Packing group** II

#### Environmental hazards

**Marine pollutant** 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.

**Packaging exceptions** 185

**Packaging non bulk** 185

**Packaging bulk** None

### IATA

**UN number** UN3480

**UN proper shipping name** Lithium Battery

**Transport hazard class(es)**

**Class** 9  
**Subsidiary risk** -  
**Label(s)** 9

**Packing group** 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 Battery

**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**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

LiFePO4 (CAS 15365-14-7) 1.0 % One-Time Export Notification only.

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

Copper (CAS 7440-50-8) Listed.

Dimethyl carbonate (CAS 616-38-6) Listed.

n-propyl acetate (CAS 109-60-4) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Toxic Substances Control Act (TSCA)** All components of the mixture on the TSCA 8(b) inventory are designated "active".

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories** Skin corrosion or irritation  
 Serious eye damage or eye irritation  
 Respiratory or skin sensitization  
 Specific target organ toxicity (single or repeated exposure)

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Aluminium	7429-90-5	31 - < 36
Copper	7440-50-8	27 - < 32

**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.



**Safe Drinking Water Act (SDWA)**      Contains component(s) regulated under the Safe Drinking Water Act.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

n-propyl acetate (CAS 109-60-4)      Low priority

**US state regulations**

**US. Massachusetts RTK - Substance List**

1,3-Dioxolan-2-one (CAS 96-49-1)  
Aluminium (CAS 7429-90-5)  
Copper (CAS 7440-50-8)  
Dimethyl carbonate (CAS 616-38-6)  
Graphite (CAS 7782-42-5)  
n-propyl acetate (CAS 109-60-4)

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

Aluminium (CAS 7429-90-5)  
Copper (CAS 7440-50-8)  
Dimethyl carbonate (CAS 616-38-6)  
Graphite (CAS 7782-42-5)  
n-propyl acetate (CAS 109-60-4)

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

1,3-Dioxolan-2-one (CAS 96-49-1)  
Aluminium (CAS 7429-90-5)  
Copper (CAS 7440-50-8)  
Dimethyl carbonate (CAS 616-38-6)  
Graphite (CAS 7782-42-5)  
n-propyl acetate (CAS 109-60-4)

**US. Rhode Island RTK**

Aluminium (CAS 7429-90-5)  
Copper (CAS 7440-50-8)  
Graphite (CAS 7782-42-5)  
n-propyl acetate (CAS 109-60-4)

**California Proposition 65**



**WARNING:** This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

Beryllium powder (CAS 7440-41-7)	Listed: October 1, 1987
Carbon Black (CAS 1333-86-4)	Listed: February 21, 2003
Cobalt (CAS 7440-48-4)	Listed: July 1, 1992
Lead (CAS 7439-92-1)	Listed: October 1, 1992
Nickel (CAS 7440-02-0)	Listed: October 1, 1989
Potassium chromate (CAS 7789-00-6)	Listed: February 27, 1987
Titanium Dioxide (CAS 13463-67-7)	Listed: September 2, 2011

**California Proposition 65 - CRT: Listed date/Developmental toxin**

Lead (CAS 7439-92-1)	Listed: February 27, 1987
Potassium chromate (CAS 7789-00-6)	Listed: December 19, 2008

**California Proposition 65 - CRT: Listed date/Female reproductive toxin**

Lead (CAS 7439-92-1)	Listed: February 27, 1987
Potassium chromate (CAS 7789-00-6)	Listed: December 19, 2008

**California Proposition 65 - CRT: Listed date/Male reproductive toxin**

Lead (CAS 7439-92-1)	Listed: February 27, 1987
Potassium chromate (CAS 7789-00-6)	Listed: December 19, 2008

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

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

**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

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies 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, including date of preparation or last revision

**Issue date** 08-July-2020

**Revision date** -

**Version #** 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.