

Lithium ion Battery ICR18650 3.7V 4400mAh

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 09/16/2019

Revision date: 09/16/2019

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Article
Trade name : Lithium ion Battery ICR18650 3.7V 4400mAh
Other means of identification : Voltage : 3.7V
Watt-Hour: 16.28Wh
Battery Weight: 94.4g

1.2. Recommended use and restrictions on use

Recommended use : Power supply.
Restrictions on use : No information available

1.3. Supplier

Supplier

Guangzhou Great Power Energy & Technology Co., Ltd.
No.912, West Village Segment, Shi Liang Road, Shawan Town, Panyu Guangdong Province P.R.China
511483
+86-020-39196828
lcni@greatpower.net

1.4. Emergency telephone number

Emergency number : +86-020-39196828

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's risk of rupture, fire, heat, leakage of internal components

In the case of rupture, the following hazards may expose:

Skin corrosion/irritation, Category 2 H315 Causes skin irritation.
Serious eye damage/eye irritation, Category 2 H319 Causes serious eye irritation.

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA)



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Precautionary statements (GHS CA) : P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instruction on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Other hazards not contributing to the classification : No information available.

2.4. Unknown acute toxicity (GHS CA)

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Iron	Iron, elemental / Direct reduced Iron / Iron, reduced / Elemental iron / IRON POWDER / Iron concentrate	(CAS-No.) 7439-89-6	31.1	Comb. Dust
Cobalt lithium manganese nickel oxide	Lithium cobalt manganese nickel oxide	(CAS-No.) 182442-95-1	28.4	Not classified
Graphite	C.I. Pigment Black 10 / C.I. 77265 / Graphite (all forms except graphite fibres)	(CAS-No.) 7782-42-5	17.1	Not classified
Copper	C.I. 77400 / C.I. Pigment Metal 2 / Copper, elemental / CI 77400 / Copper metal / Copper, metallic / Pigment Metal 2 / Granulated copper / Copper (metallic)	(CAS-No.) 7440-50-8	5.7	Acute Tox. 4 (Oral), H302 Comb. Dust
Diethyl carbonate	Carbonic acid, diethyl ester / Ethyl carbonate / Diethyl cacbonate	(CAS-No.) 105-58-8	4.7	Not classified
Dimethyl carbonate	Carbonic acid, dimethyl ester / Methyl carbonate / DIMETHYL CARBONATE	(CAS-No.) 616-38-6	3.8	Not classified
Ethylene carbonate	Carbonic acid, cyclic ethylene ester / Cyclic ethylene carbonate / 1,3-Dioxolan-2-one / Dioxolone-2 / Ethylene carbonic acid / Ethylene glycol carbonate / Ethylene glycol, cyclic carbonate / Glycol carbonate / ETHYLENE CARBONATE / 2-Oxo-1,3-dioxolan	(CAS-No.) 96-49-1	3.4	Not classified
Aluminum	Aluminium / Aluminium metal / Aluminium, metal / Aluminum metal / Aluminum, elemental / Aluminum, metal / C.I. 77000 / CI 77000 / Aluminum (metal) / Aluminium powder (stabilised) / Aluminium powder (stabilized) / Aluminium powder / Pigment Metal 1 / Aluminum powder / Aluminium metal, powder	(CAS-No.) 7429-90-5	2.5	Water-react. 2, H261 Comb. Dust
Polypropylene	1-Propene, homopolymer / Polypropylene wax / POLYPROPYLENE / Polypropyl-1-ene / Polypropylene homopolymer / Polypropylene and polypropylene wax	(CAS-No.) 9003-07-0	2	Not classified
Phosphate(1-), hexafluoro-, lithium	Lithium hexafluorophosphate(1-) / Lithium phosphohexafluoride / Phosphate(1-), hexafluoro-, lithium (1:1) / Lithium hexafluorophosphate	(CAS-No.) 21324-40-3	1.3	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use. In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.
First-aid measures after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. Do not induce vomiting because of corrosive effects. Call a poison center or a doctor if you feel unwell.
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: No information available.
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4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire. Water spray. Dry powder. Foam.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : No information available.

5.3. Specific hazards arising from the hazardous product

Fire hazard : Toxic and irritating gases are released. Do not allow run-off from fire-fighting to enter drains or water courses.

Explosion hazard : Containers could explode when heated.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Cool laterally with water containers exposed to flames, even after the fire is extinguished. Do not allow run-off from fire fighting to enter drains or water courses. Fight fire from safe distance and protected location. Move containers from fire area if it can be done without personal risk. Remove all sources of ignition.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Ensure adequate ventilation, especially in confined areas. Evacuate personnel to a safe area. Keep upwind.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not breathe gas, fumes, vapour or spray. Avoid inhalation of vapours. Eliminate every possible source of ignition. Ensure adequate ventilation. Evacuate unnecessary personnel.

Personal Precautions, Protective Equipment and Emergency Procedures : Respiratory protective device with a combined gas and particle filter. Wear personal protective equipment.

Prevention Measures for Secondary Accidents : Eliminate all ignition sources if safe to do so.

6.2. Methods and materials for containment and cleaning up

For containment : Absorb remaining liquid with sand or inert absorbent and remove to safe place. Contaminated equipment must be cleaned immediately with water.

Methods for cleaning up : Mechanically recover the product. Shovel or sweep up and put in a closed container for disposal. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel).

Other information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : When packing the batteries, do not allow battery terminals to contact each other, or contact with other metals.
Be sure to pack batteries by providing partitions in the packaging box, or in a separate plastic bag so that the single batteries are not mixed together.
Use strong material for packaging boxes so that they will not be damaged by vibration, impact, dropping and stacking during their transportation.
Do not short-circuit, recharge, deform, throw into fire or disassemble.
Do not mix different type of batteries.
Do not solder directly onto batteries.
Insert the battery correctly in electrical equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from moisture. Store in accordance with local, regional, national or international regulation. Keep locked up and out of reach of children.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Graphite (7782-42-5)

Canada (Alberta) - Occupational Exposure Limits

OEL TWA (mg/m ³)	2 mg/m ³ (all forms except Graphite fibres-respirable)
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Canada (Quebec) - Occupational Exposure Limits

VEMP (mg/m ³)	2 mg/m ³ (containing no Asbestos and <1% Crystalline silica, except Graphite fibres-respirable dust)
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Canada (British Columbia) - Occupational Exposure Limits

OEL TWA (mg/m ³)	2 mg/m ³ (all forms except Graphite fibres-respirable)
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Canada (Ontario) - Occupational Exposure Limits

OEL TWA (mg/m ³)	2 mg/m ³ (except Graphite fibres-respirable)
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USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (mg/m ³)	2 mg/m ³ (all forms except graphite fibers-respirable particulate matter)
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USA - OSHA - Occupational Exposure Limits

OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (synthetic-total dust) 5 mg/m ³ (synthetic-respirable fraction)
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Copper (7440-50-8)

Canada (Alberta) - Occupational Exposure Limits

OEL TWA (mg/m ³)	0.2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
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Canada (Quebec) - Occupational Exposure Limits

VEMP (mg/m ³)	0.2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
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Canada (British Columbia) - Occupational Exposure Limits

OEL TWA (mg/m ³)	1 mg/m ³ (dust and mist) 0.2 mg/m ³ (fume)
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Canada (Ontario) - Occupational Exposure Limits

OEL TWA (mg/m ³)	0.2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
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USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (mg/m ³)	0.2 mg/m ³ (fume)
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USA - OSHA - Occupational Exposure Limits

OSHA PEL (TWA) (mg/m ³)	0.1 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
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Aluminum (7429-90-5)

Canada (Alberta) - Occupational Exposure Limits

OEL TWA (mg/m ³)	10 mg/m ³ (dust)
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Canada (Quebec) - Occupational Exposure Limits

VEMP (mg/m ³)	10 mg/m ³
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Canada (British Columbia) - Occupational Exposure Limits

OEL TWA (mg/m ³)	1 mg/m ³ (respirable)
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Canada (Ontario) - Occupational Exposure Limits

OEL TWA (mg/m ³)	1 mg/m ³ (respirable)
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USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (mg/m ³)	1 mg/m ³ (respirable particulate matter)
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ACGIH chemical category	Not Classifiable as a Human Carcinogen
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Graphite (7782-42-5)

USA - OSHA - Occupational Exposure Limits

OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
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8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Both local exhaust and general room ventilation are usually required. Do not eat, drink or smoke when using this product. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: No data available
Colour	: Mixture contains one or more component(s) which have the following colour(s): red Colourless Silver Metallic
Odour	: odourless
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: No flames, no sparks. Eliminate all sources of ignition. Incompatible materials.
Incompatible materials	: Strong alkalis. Strong acids. Strong oxidizing agent.

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Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Iron (7439-89-6)	
LD50 oral rat	30 g/kg

Cobalt lithium manganese nickel oxide (182442-95-1)	
LC50 inhalation rat (mg/l)	0.05 - 0.5 mg/l/4h

Dimethyl carbonate (616-38-6)	
LD50 oral rat	13 g/kg
LD50 dermal rabbit	> 5 g/kg
LC50 inhalation rat (mg/l)	140 mg/l/4h

Ethylene carbonate (96-49-1)	
LD50 oral rat	10 g/kg

Phosphate(1-), hexafluoro-, lithium (21324-40-3)	
LD50 oral rat	50 - 300 mg/kg

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

: Not classified

STOT-repeated exposure

Aspiration hazard : Not classified

Symptoms/effects : No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

Copper (7440-50-8)	
EC50 96h algae (1)	0.031 - 0.054 mg/l (Species: Pseudokirchneriella subcapitata [static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

Iron (7439-89-6)

Listed on the Canadian DSL (Domestic Substances List)

Graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List)

Copper (7440-50-8)

Listed on the Canadian DSL (Domestic Substances List)

Diethyl carbonate (105-58-8)

Listed on the Canadian DSL (Domestic Substances List)

Dimethyl carbonate (616-38-6)

Listed on the Canadian DSL (Domestic Substances List)

Ethylene carbonate (96-49-1)

Listed on the Canadian DSL (Domestic Substances List)

Aluminum (7429-90-5)

Listed on the Canadian DSL (Domestic Substances List)

Polypropylene (9003-07-0)

Listed on the Canadian DSL (Domestic Substances List)

Phosphate(1-), hexafluoro-, lithium (21324-40-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)

15.2. International regulations

Iron (7439-89-6)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Cobalt lithium manganese nickel oxide (182442-95-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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Graphite (7782-42-5)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Copper (7440-50-8)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Diethyl carbonate (105-58-8)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Dimethyl carbonate (616-38-6)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Ethylene carbonate (96-49-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Aluminum (7429-90-5)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Polypropylene (9003-07-0)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
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Phosphate(1-), hexafluoro-, lithium (21324-40-3)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

Date of issue : 09/16/2019

Revision date : 09/16/2019

Full text of H-statements:

H261	In contact with water releases flammable gases.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

SDS Canada (GHS)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.