SAFETY DATA SHEET



1. Identification

Product identifier Lithium-ion and Lithium-ion Polymer Batteries (Li-ion Batteries)

Other means of identification None

Recommended use of the chemical and restrictions on use

Recommended use Lithium-ion battery.

Restrictions on use None known.

Details of manufacturer or importer

Company name Motorola Solutions Australia Pty Ltd

Address 10 Wesley Court

East Burwood VIC 3151

Australia

General information +61 3 9847 7500

Emergency phone number

CHEMTREC (Australia): +61 2 9037 2994 CHEMTREC (International): +1-703-741-5500

Customer number 204471

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritationCategory 1A to 1CSerious eye damage/eye irritationCategory 1 to 2ASensitization, skinCategory 1CarcinogenicityCategory 1A

Environmental hazards Not classified.

Under normal conditions of processing and use, exposure to the chemical constituents in this product is unlikely. The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful. Hazards shown here apply to exposure that may occur from damaged or leaking batteries or under extreme heat conditions such as fire

Label elements, including precautionary statements



Signal word(s) Warning/Danger.

Hazard statement(s) Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin

reaction. May cause cancer.

Precautionary statement(s)

Hazard symbol(s)

Prevention Handle with care. For safe handling, see Section 7. **Response** See Sections 4, 6 and 8 for response information.

Storage Store as indicated in Section 7.

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

Other hazards which do not result in classification In the event of damage resulting in a leak of exposed materials, avoid contact with contents of an open or damaged cell or battery.

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Supplemental information None.

3. Composition / information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients %
Positive electrode (One of the following: Lithiated cobalt oxides, Lithiated manganese oxides, Lithiated nickel-manganese-cobalt oxides)	12190-79-3, 12057-17-9, 346417-97-8	20-40
Negative electrode (Graphite)	7782-42-5	10-20
Binders (Polyvinylidene difluoride and/or polytetrafluoroethylene)	24937-79-9, 9002-84-0	0-3
Electrolyte salt (Lithium salt: one or more of lithium hexafluorophosphate and lithium tetrafluoroborate)	21324-40-3, 14283-07-9	1-5
Electrolyte solvent (Organic solvents including one or more of the following: Ethylene carbonate, Diethyl carbonate, Dimethyl carbonate, Ethyl methyl carbonate, and Propylene carbonate.)	96-49-1, 105-58-8, 616-38-6, 623-53-0, 108-32-7	5-20
Other components (Copper)	7440-50-8	5-10
Other components (Aluminum)	7429-90-5	5-40
Other components (Nickel)	7440-02-0	0-5
Other components (Polyethylene and/or polypropylene)	9002-88-4, 9003-07-0	1-3

All concentrations are in percent by weight unless otherwise indicated.

Ingredients shown are major constituents representative of various compositions for lithium-ion cells.

Exposure to hazardous ingredients is not anticipated under normal conditions of use. For further information please refer to Section 8.

4. First-aid measures

Description of necessary first aid measures

Inhalation Exposure to contents of an open or damaged battery: If breathing is difficult, remove to fresh air

and keep at rest in a position comfortable for breathing. Call a physician or poison control centre

immediately.

Skin contact Exposure to contents of an open or damaged battery: Remove contaminated clothes and rinse

skin thoroughly with water for at least 15 minutes. Call a physician or poison control centre

immediately. Chemical burns must be treated by a physician.

Exposure to contents of an open or damaged battery: Immediately flush eyes with plenty of water Eye contact

for at least 15 minutes. Provide eyewash station. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician or poison control centre immediately.

Exposure to contents of an open or damaged battery: Call a physician or poison control centre Ingestion

immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that

stomach content doesn't get into the lungs.

Personal protection for first-aid

responders

Use personal protective equipment sufficient to prevent direct skin or eye contact or inhalation of this product. If potential for exposure exists refer to Section 8 for specific personal protective

equipment.

Exposure to contents of an open or damaged battery: Burning pain and severe corrosive skin Symptoms caused by exposure damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling,

and blurred vision. Permanent eye damage including blindness could result. May cause allergic skin reaction. Difficulty in breathing. Coughing. Prolonged exposure may cause chronic effects.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Special protective equipment and precautions for fire fighters

Firefighting equipment/instructions

Hazchem Code General fire hazards Use fire-extinguishing media appropriate for surrounding materials.

Leak from a damaged or opened battery: Do not use water unless flooding amounts are available.

In the event of fire and/or explosion do not breathe fumes. The evolved combustion products may contain carbon oxides, metal oxides, hydrogen fluoride, and should be considered hazardous.

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fight fire from protected location or safe distance. Keep upwind. Move containers from fire area if you can do so without risk. Avoid discharge into drains, water courses or onto the ground.

4 W

Under normal use, the battery does not exhibit flammable properties. In the event that the battery

is abused and disassembly of the battery occurs resulting in exposure of internal components, the exposed solution, may be flammable and/or corrosive. Exposure to excessive heat may lead to venting or rupture of the sealed battery, exposing the internal components which may be corrosive

and/or flammable. Vented gas would be flammable when in sufficient concentration.

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

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

None under normal use conditions. In the event of damage resulting in a leak or exposed materials, avoid contact with contents of an open or damaged cell or battery. Wear protective clothing as described in section 8 of this safety data sheet.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

Environmental precautions Methods and materials for containment and cleaning up Avoid allowing material from exposed battery to contaminate soil, sanitary sewers, or waterways. Leak from a damaged or opened battery: Contain spillage with sand or earth. Collect with absorbent, non-combustible material into suitable containers. For waste disposal, see Section 13 of the SDS.

Other issues relating to spills

and releases

Clean up in accordance with all applicable regulations.

7. Handling and storage

Precautions for safe handling

Do not open, disassemble, crush or burn battery. Protect against physical damage. Do not expose battery to extreme heat or fire. Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure and fire. Remove contaminated clothing and protective equipment before entering eating areas. Wash hands after handling.

Conditions for safe storage, including any incompatibilities Keep out of reach of children. Prevent short circuits. Store in original packaging. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Store away from incompatible materials (See Section 10).

8. Exposure controls and personal protection

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	5 mg/m3	
		5 mg/m3	Fume.
		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	3 mg/m3	Respirable dust.
Lithium manganese oxide (CAS 12057-17-9)	TWA	1 mg/m3	Dust.
Nickel (CAS 7440-02-0)	TWA	0.1 mg/m3	

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational **Environment)**

Components	Туре	Value	Form	
Aluminium (CAS 7429-90-5)	TWA	5 mg/m3	Welding fume.	
		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	3 mg/m3	Respirable dust.	
Lithium manganese oxide (CAS 12057-17-9)	TWA	1 mg/m3		
Nickel (CAS 7440-02-0)	TWA	1 mg/m3		
US. ACGIH Threshold Limit Values				
Components	Туре	Value	Form	
Aluminium (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction	
Cobalt lithium dioxide (CAS 12190-79-3)	TWA	0.02 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 fraction.	

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US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Lithium manganese oxide (CAS 12057-17-9)	TWA	0.1 mg/m3	Inhalable fraction.
,		0.02 mg/m3	Respirable fraction.
Lithium tetrafluoroborate, anhydrous (CAS 14283-07-9)	STEL	6 mg/m ³	Inhalable fraction.
,	TWA	2 mg/m3	Inhalable fraction.
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.
UK. EH40 Workplace Exposure L	imits (WELs)		
Components	Туре	Value	Form

Components	Туре	Value	Form
Aluminium (CAS 7429-90-5)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Cobalt lithium dioxide (CAS 12190-79-3)	TWA	0.1 mg/m3	
Copper (CAS 7440-50-8)	STEL	2 mg/m3	Inhalable dusts and mists.
	TWA	1 mg/m3	Inhalable dusts and mists.
		0.2 mg/m3	Fume.
Graphite (CAS 7782-42-5)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Lithium manganese oxide (CAS 12057-17-9)	TWA	0.5 mg/m3	
Nickel (CAS 7440-02-0)	TWA	0.5 mg/m3	
Polyethylene (CAS 9002-88-4)	TWA	4 mg/m3	Respirable dust.
,		10 mg/m3	Inhalable dust.

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	Form
Aluminium (CAS 7429-90-5)	TWA	4 mg/m3	Inhalable fraction.
		1.5 mg/m3	Respirable fraction.
Copper (CAS 7440-50-8)	TWA	0.01 mg/m3	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	4 mg/m3	Inhalable fraction.
		1.5 mg/m3	Respirable fraction.
Lithium manganese oxide (CAS 12057-17-9)	TWA	0.2 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction.
Lithium tetrafluoroborate, anhydrous (CAS 14283-07-9)	TWA	1 mg/m3	Inhalable fraction.
Polyethylene (CAS 9002-88-4)	TWA	4 mg/m3	Inhalable dust.
332 33 .,		0.3 mg/m3	Respirable dust.

Biological limit values

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling time
Lithium tetrafluoroborate, anhydrous (CAS 14283-07-9)	7 mg/g	Fluoride	Creatinine in urine	*
	4 mg/g	Fluoride	Creatinine in urine	*

 $[\]ensuremath{^*}$ - For sampling details, please see the source document.

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling time	
Cobalt lithium dioxide	e (CAS 15 µg/l	Cobalt	Urine	*	
12190-79-3)					

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

Airborne exposures to hazardous substances are not expected when product is used for its **Exposure guidelines**

intended purpose.

Appropriate engineering

controls

General ventilation normally adequate. Leak from a damaged or opened battery: Provide adequate

ventilation if fumes or vapours are generated.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection None under normal conditions. Leak from a damaged or opened battery: Wear approved safety

glasses or goggles and/or a face shield.

Skin protection

Hand protection None under normal conditions. Leak from a damaged or opened battery: Wear protective gloves.

None under normal conditions. Leak from a damaged or opened battery: Wear suitable protective Other

clothing (lab coat and face shield) and gloves. Have a safety shower or eye wash station readily

available.

Respiratory protection None under normal conditions. Leak from a damaged or opened battery: Wear suitable respiratory

protection in the form of an approved half face inorganic vapour and gas/acid/particulate respirator.

Thermal hazards Not applicable.

Hygiene measures Do not store food, drink and tobacco near the product. Practice good housekeeping.

9. Physical and chemical properties

Appearance

Physical state Solid. Form Battery. Colour Not available. Odour Not available. **Odour threshold** Not available. Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available. range

Flash point Not available. Not available. **Evaporation rate**

Flammability (solid, gas) Battery can burst in a fire. Organic electrolyte leaking from a damaged battery is flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Not oxidising.

(%)

Flammability limit - upper

Not available. (%) Not available. Vapour pressure Not available. Vapour density Not available. Relative density

Solubility(ies)

Solubility (water) Insoluble. Partition coefficient Not available.

(n-octanol/water)

Oxidising properties

Auto-ignition temperature Not available. Not available. **Decomposition temperature** Not available. **Viscosity**

Other physical and chemical parameters **Explosive properties** Not explosive.

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10. Stability and reactivity

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

Product is stable under normal conditions. **Chemical stability**

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Elevated temperatures. Shocks and physical damage. Do not

open, disassemble, crush or burn battery. Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure and fire.

Incompatible materials Do not immerse in seawater or other high conductivity liquids. Organic electrolyte - reacts with

water to produce hydrogen fluoride.

Hazardous decomposition

products

Thermal decomposition or combustion may produce: carbon oxides, metal oxides, hydrogen

fluoride.

11. Toxicological information

Information on possible routes of exposure

Inhalation Not relevant, due to the form of the product. Exposure to contents of an open or damaged battery:

May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Not relevant, due to the form of the product. Exposure to contents of an open or damaged battery: Skin contact

Causes severe skin burns. May cause an allergic skin reaction.

Not relevant, due to the form of the product. Exposure to contents of an open or damaged battery: Eye contact

Causes serious eye damage.

Ingestion Not relevant, due to the form of the product. Exposure to contents of an open or damaged battery:

Causes digestive tract burns. Harmful if swallowed.

Exposure not expected under normal use conditions. In the event that cell or battery is damaged, Symptoms related to exposure

open, or leaking - inhalation, skin contact, and/or eye contact may be considered for routes of exposure. Signs and symptoms may include: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause allergic skin reaction. Difficulty in breathing. Coughing. Prolonged exposure may cause chronic effects.

Expected to be a low hazard for usual industrial or commercial handling by trained personnel. **Acute toxicity**

Exposure to contents of an open or damaged battery: Harmful if swallowed.

Components **Species Test results**

Copper (CAS 7440-50-8)

Acute

Inhalation

LC50 Rat > 2.77 mg/l, 4 hours

Oral

LD50

Rat 481 mg/kg

Polyethylene (CAS 9002-88-4)

Acute Oral

LD50 Rat > 2000 mg/kg

Propylene carbonate (CAS 108-32-7)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat > 5 mg/l

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Exposure to contents of an open or damaged battery: Causes severe skin burns. Exposure to contents of an open or damaged battery: Causes serious eye damage. Serious eye damage/irritation

Respiratory or skin sensitisation

Respiratory sensitisation No data available. Lithium-ion and Lithium-ion Polymer Batteries (Li-ion Batteries)

Revision date: 29-Jan-2025 Issue date: 29-Jan-2025 7/11 Skin sensitisation Exposure to contents of an open or damaged battery: May cause an allergic skin reaction.

Germ cell mutagenicity No data available.

Carcinogenicity Exposure to contents of an open or damaged battery: May cause cancer.

ACGIH Carcinogens

Aluminium (CAS 7429-90-5) A4 Not classifiable as a human carcinogen.

Cobalt lithium dioxide (CAS 12190-79-3) A3 Confirmed animal carcinogen with unknown relevance to

humans.

Lithium manganese oxide (CAS 12057-17-9) A4 Not classifiable as a human carcinogen. Lithium tetrafluoroborate, anhydrous (CAS 14283-07-9) A4 Not classifiable as a human carcinogen.

Nickel (CAS 7440-02-0) A5 Not suspected as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cobalt lithium dioxide (CAS 12190-79-3) 2B Possibly carcinogenic to humans. Nickel (CAS 7440-02-0) 2B Possibly carcinogenic to humans.

Polyethylene (CAS 9002-88-4) 3 Not classifiable as to carcinogenicity to humans. Polypropylene (CAS 9003-07-0) 3 Not classifiable as to carcinogenicity to humans. Polytetrafluoroethylene (CAS 9002-84-0) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity No data available.

Specific target organ toxicity -

No data available. single exposure

Specific target organ toxicity -No data available.

repeated exposure

No data available. **Aspiration hazard**

Chronic effects Exposure to contents of an open or damaged battery: Prolonged inhalation may be harmful.

Prolonged exposure may cause chronic effects.

Other information Exposure to hazardous ingredients is not anticipated under normal conditions of use.

12. Ecological information

Based on available data, the classification criteria are not met for hazardous to the aquatic **Ecotoxicity**

environment. However, in case of accidental release of large amounts a hazardous effect cannot

be excluded.

Components **Test results Species**

Nickel (CAS 7440-02-0)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 1 mg/l, 48 hours 1 mg/l, 48 Hours

> LC50 Calanoid copepod (Pseudodiaptomus 6.17 - 12.4 mg/l, 72 hours

> > coronatus)

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Diethyl carbonate (CAS 105-58-8) 1.21

No data available for this product. Mobility in soil

Other adverse effects None known.

13. Disposal considerations

Recycle the batteries, as the primary disposal method. Collect and reclaim or dispose in sealed **Disposal methods**

containers at licensed waste disposal site.

Residual waste 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

anapproved waste handling site for recycling or disposal.

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14. Transport information

UN 3480, Lithium-ion batteries, 9

UN 3481, Lithium-ion batteries contained in equipment, 9

UN 3481, Lithium-ion batteries packed with equipment, 9

The Watt-hour rating for all Motorola Solutions, Inc. lithium-ion products is ≤ 20 Watt-hours for cells and ≤ 100 Watt hours for batteries.

When packaged and shipped by Motorola Solutions, Inc., these batteries are tested, packaged, marked, and labeled in accordance with all applicable requirements for transport by mode of shipment (air, sea or ground), as follows:

- 1) International Air Transport Association (IATA) and International Civil Aviation Organization (ICAO) Technical Instructions Dangerous Goods Regulations:
 - a) PI 965 Section IB (UN 3480, Lithium-ion batteries), offered for transport at a state of charge (SOC) not exceeding 30% of their rated design capacity.
 - b) PI 966 Section II (UN 3481, Lithium-ion batteries packed with equipment), and PI 967 Section II (UN 3481, Lithium-ion batteries packed with equipment). ion batteries contained in equipment);
- 2) International Maritime Dangerous Goods (IMDG) Code Special Provision 188;
- 3) Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) Special Provision 188;
- 4) Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) Special Provision 188;
- 5) UN Model Regulations Special Provisions 188;

All Motorola Solutions Li-ion batteries are tested in accordance with the UN Manual of Tests and Criteria, Part III, Subsection 38.3 Revision 3, Amendment 1 or any subsequent revision and amendment.

15. Regulatory information

Safety, health and environmental regulations

National regulations

No poison schedule number allocated. This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (GHS 7).

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Australia National Pollutant Inventory (NPI): Threshold quantity

Cobalt lithium dioxide (CAS 12190-79-3) 10 TONNES/YR Threshold Category: 1 Copper (CAS 7440-50-8) 10 TONNES/YR Threshold Category: 1 Lithium manganese oxide (CAS 12057-17-9) 10 TONNES/YR Threshold Category: 1 Lithium tetrafluoroborate, anhydrous (CAS 14283-07-9) 10 TONNES/YR Threshold Category: 1 Nickel (CAS 7440-02-0) 10 TONNES/YR Threshold Category:

High Volume Industrial Chemicals (HVIC)

Aluminium (CAS 7429-90-5) 100000 - 999999 TONNES See the regulation for additional information. Copper (CAS 7440-50-8) 10000 - 99999 TONNES See the regulation for additional information. Graphite (CAS 7782-42-5) 1000 - 9999 TONNES See the regulation for additional information. Nickel (CAS 7440-02-0) 1000 - 9999 TONNES See the regulation for additional information. Polyethylene (CAS 9002-88-4) 1000 - 9999 TONNES See the regulation for additional

information.

Importation of Ozone Deleting Substances (Customs (Prohibited imports) Regulations 1956, Schedule 10)

National Pollutant Inventory (NPI) substance reporting list

Aluminium (CAS 7429-90-5) 2000 TONNES/YR Threshold Category: 2B 400 TONNES/YR Threshold Category: 2A 2000 TONNES/YR Threshold Category: 2B Copper (CAS 7440-50-8) Graphite (CAS 7782-42-5) 2000 TONNES/YR Threshold Category: 2B 400 TONNES/YR Threshold Category: 2A Nickel (CAS 7440-02-0) 2000 TONNES/YR Threshold Category: 2B Polyethylene (CAS 9002-88-4) 2000 TONNES/YR Threshold Category: 2B 400 TONNES/YR Threshold Category: 2A

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Importation of Organochlorine Chemicals (Customs (Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Lithium tetrafluoroborate, anhydrous (CAS 14283-07-9)

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International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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).

16. Other information

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Disclaimer Motorola Solutions, Inc. cannot anticipate all conditions under which this information and its product,

or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet

was written based on the best knowledge and experience currently available.

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).