

Lithium-ion Battery - Rechargeable (Brand AEG) Techtronic Industries Australia Pty Ltd

Chemwatch: **5514-17** Version No: **5.1**

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 0

Issue Date: **28/10/2024**Print Date: **11/11/2024**L.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier	
Product name	Lithium-ion Battery - Rechargeable (Brand AEG)

Synonyms

Chemical Name

_	
	Not Applicable
	L1815R 18V 1.5Ah 27Wh, L1820R 18V 2Ah 36Wh, L1825R 18V 2.5Ah 45Wh, L1830R 18V 3Ah 54Wh, L1840R 18V 4Ah 72Wh, L1850R 18V 5Ah 90Wh, L1860R 18V 6Ah 108Wh, L1215 12V 1.5Ah 18Wh, L1220 12V 2Ah 24Wh, L1230 12V 3Ah 36Wh, L1240 12V 4Ah 48Wh, L1415R 14.4V 1.5Ah 21Wh, L1420R 14.4V 2Ah 28Wh, L1430R 14.4V 3Ah 42Wh, L1440R 14.4V 4Ah 56Wh, SL3.6 3.6V 1.5Ah 5.4Wh, L1212R 12V 1.5Ah 18Wh, L1215G 3 12V 1.5Ah 18Wh, L1220G3 12V 2Ah 24Wh, L1415G3 14.4V 1.5Ah 21.6Wh, L120G3 14.4V 2Ah 28.8Wh, L1215G3 12V 1.5Ah 18Wh, L1220G3 12V 2Ah 24Wh L1415G3 14.4V 1.5Ah 21Wh, L1420G3 14.4V 2Ah 28.8Wh, L1215G3 12V 1.5Ah 18Wh, L1220G3 12V 2Ah 24Wh L1415G3 14.4V 1.5Ah 21Wh, L1420G3 14.4V 2Ah 28.8Wh, ABP58LI-201 58V 2Ah 102Wh, ABP58LI-401 58V 4Ah 204Wh L1230 12V 3Ah 36Wh; L1260 12V 6Ah 72Wh L1860R-LE 18V 6Ah 108Wh, ABP50LI401 50V 4Ah 200Wh, L1815G 18V 1.5Ah 27Wh, L1860B 18V 6Ah 108Wh, L1860R-X5 18V 6Ah 108Wh, L1890B 18V 9Ah 162Wh, L1890R 18V 9Ah 162Wh, L1890R 18V 9Ah 162Wh, L1890R 18V 9Ah 162Wh, L1890R 18V 9Ah 162Wh, ABP58LI-201 51.1V 2Ah 102Wh, ABP58LI-401 51.1V 4Ah 204Wh, L1860R-D 18V 6Ah 108Wh, L1830R-X5, L1830R-D 18V 3Ah 54Wh, L1820S 18V 2Ah 36Wh, L1815G TYPE II 18V 1.5Ah 27Wh, L1820R TYPE II 18V 2Ah 36Wh, L1840R TYPE II 18V 4Ah 72Wh, L1825R TYPE II 18V 2Ah 36Wh, L1840R TYPE II 18V 4Ah 72Wh, L1825R TYPE II 18V 2Ah 36Wh, L1840B 18V 2Ah 36Wh, A18FB2 18V 2Ah 36Wh, L1840B 18V 4Ah 72Wh, L1850R TYPE II 18V 5Ah 90Wh, A18FB2 18V 5Ah 90Wh, A18FB5 18V 5Ah 90Wh, A18OB6 18V 6Ah 108Wh, A18OB6 18V 6Ah 108Wh
	LITHIUM ION BATTERIES (including lithium ion polymer batteries)
	Not Applicable

Relevant identified uses of the substance or mixture and uses advised against

Not Available

Relevant identified uses

Proper shipping name
Chemical formula

Other means of identification

NOTE: Hazard statement relates to battery contents. Potential for exposure should not exist unless the battery leaks, is exposed to high temperatures or is mechanically, physically or electrically abused. Use involves discharge then regenerative charging cycle from external DC power source. CHARGING HAZARD. Completion of charging process includes evolution of highly flammable and explosive hydrogen gas which is readily detonated by electric spark. No smoking or naked lights.

Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Techtronic Industries Australia Pty Ltd	
Address	31 Gilby Road, Mount Waverley VIC 3149 Australia	
Telephone	1300 361 505	
Fax	Not Available	
Website	https://www.aegpowertools.com.au/	
Email	customerservice@ttibrands.com.au	

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone number(s)	+61 1800 951 288
Other emergency telephone number(s)	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Poisons Schedule	Not Applicable
Classification [1]	Non hazardous
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Label elements	
Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

Hazard statement(s)

Not Applicable

Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available		hermetically sealed metal containers with electrochemical contents, typically
12031-65-1	0-35	lithium nickel oxide
7440-44-0	0-30	carbon, activated
7439-89-6	0-25	iron
7440-50-8	0-30	copper
7429-90-5	0-15	aluminium
12190-79-3	0-50	lithium cobaltate
616-38-6	0-10	dimethyl carbonate
12057-17-9	0-15	lithium manganate
9002-88-4	0-10	polyethylene
96-49-1	0-5	ethylene carbonate
21324-40-3	0-10	lithium fluorophosphate
7782-42-5	0-30	<u>graphite</u>
623-53-0	0-5	ethyl methyl carbonate
7440-02-0	0-5	nickel
25640-14-6	0-1	dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol
9003-07-0	0-1	polypropylene
16812-54-7	0-1	nickel(II) sulfide
26023-21-2	0-1	imide resin
7440-21-3	0-1	silicon
554-13-2	0-1	lithium carbonate
1333-86-4	0-1	carbon black
9003-55-8	0-1	styrene/ butadiene copolymer
26337-35-9	0-1	poly(ethylene-co-vinyl acetate-co-carbon monoxide) low density
9004-32-4	0-1	sodium carboxymethylcellulose
110-61-2	0-1	<u>succinonitrile</u>
11089-89-7	0-1	lithium aluminate
346417-97-8	0-35	lithium nickel manganese cobalt oxide
113066-89-0	0-40	lithium nickel cobalt oxide
24937-79-9	0-10	vinylidene fluoride homopolymer
10097-28-6	0-5	silicon monoxide
554-12-1	0-5	methyl propionate
114435-02-8	0-5	fluoroethylene carbonate
1318-23-6	0-1	boehmite
872-50-4	0-1	N-methyl-2-pyrrolidone
7440-47-3	0-1	<u>chromium</u>
100-41-4	0-1	<u>ethylbenzene</u>
182442-95-1	0-50	cobalt lithium manganese nickelate
1309-37-1	0-1	ferric oxide
141-78-6	0-10	ethyl acetate

Chemwatch: 5514-17 Page 3 of 27 Issue Date: 28/10/2024 Print Date: 11/11/2024 Version No: 5.1

Lithium-ion Battery - Rechargeable (Brand AEG)

CAS No	%[weight]	Name
1307-96-6	0-30	cobalt (II) oxide
1313-13-9	0-30	manganese dioxide
1313-99-1	0-30	nickel oxide
92-52-4	0-0.3	<u>biphenyl</u>
13463-67-7	0-10	titanium dioxide
12016-80-7	0-10	cobalt(III) oxide monohydrate
1308-06-1	0-10	cobalt oxide (tetroxide)
546-93-0	0-10	<u>magnesite</u>
90076-65-6	0-1	N-lithiotrifluoromethanesulfonimide
30174-67-5	0-1	itaconic acid/ 1,3-butadiene/ styrene copolymer
111-69-3	0-1	<u>adiponitrile</u>
15365-14-7	0-30	lithium iron phosphate
Not Available	balance	Aluminum, Steel, Nickel and other inert materials
Legend:		mwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. from C&L * EU IOELVs available

SECTION 4 First aid measures

Description of first aid measures	
Eye Contact	 Generally not applicable. If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 Generally not applicable. If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 Generally not applicable. If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Generally not applicable. Not considered a normal route of entry. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility None known. Keep dry NOTE: May develop pressure in containers; open carefully. Vent periodically.

Advice for firefighters

Fire Fighting	Slight hazard when exposed to heat, flame and oxidisers.
Fire/Explosion Hazard	 Non combustible. Not considered to be a significant fire risk. Heating may cause expansion or decomposition leading to violent rupture of containers. Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place. Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard.
HAZCHEM	2Y

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: 28/10/2024 Print Date: 11/11/2024

Methods and material for containment and cleaning up

Minor Spills	Clean up all spills immediately. Avoid contact with skin and eyes. Place in suitable containers for disposal.
Major Spills	 Clean up all spills immediately. Wear protective clothing, safety glasses, dust mask, gloves. Secure load if safe to do so.

Do not connect the positive terminal to the negative terminal with electrical wire or chain. Avoid polarity reverse connection when installing

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

the battery to an instrument. Do not wet the battery with water, seawater or acid; or expose to strong oxidizer. Do not damage or remove the external tube. Keep the battery away from heat and fire. Do not disassemble or reconstruct the battery; or solder the battery directly. Do not give a mechanical shock or deform. Do not use unauthorized charger or other charging method. This battery is manufactured in a charged state. It is NOT designed for recharging. Inadvertent charging can occur if a battery is installed backwards. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Avoid physical damage to containers. * Keep dry. * Store under cover. * Protect containers against physical damage. Keep out of reach of children.

Store out of direct sunlight

▶ Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities

Suitable container	Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear. As far as is practicably possible, reuse the original packaging or something providing a similar level of protection to both the article and the handler.
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. • Keep dry • NOTE: May develop pressure in containers; open carefully. Vent periodically.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	copper	Copper, dusts & mists (as Cu)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	copper	Copper (fume)	0.2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	aluminium	Aluminium, pyro powders (as Al)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	aluminium	Aluminium (welding fumes) (as Al)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	aluminium	Aluminium (metal dust)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	lithium manganate	Manganese, dust & compounds (as Mn)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	graphite	Graphite (all forms except fibres) (respirable dust) (natural & synthetic)	3 mg/m3	Not Available	Not Available	(e) Containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	nickel	Nickel, metal	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	nickel	Nickel, powder	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	nickel(II) sulfide	Nickel sulphide roasting (fume & dust) (as Ni)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silicon	Silicon	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	carbon black	Carbon black	3 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	lithium nickel manganese cobalt oxide	Manganese, dust & compounds (as Mn)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	boehmite	Aluminium oxide	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	N-methyl-2- pyrrolidone	1-Methyl-2-pyrrolidone	25 ppm / 103 mg/m3	309 mg/m3 / 75 ppm	Not Available	Not Available
Australia Exposure Standards	chromium	Chromium (metal)	0.5 mg/m3	Not Available	Not	Not Available

Version No: **5.1**

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

Source	Ingredient	Material name	TWA	STEL		Peak	Notes
						Available	
Australia Exposure Standards	ethylbenzene	Ethyl benzene	100 ppm / 434 mg/m3	543 mg/n 125 ppm	n3 /	Not Available	Not Available
Australia Exposure Standards	cobalt lithium manganese nickelate	Manganese, dust & compounds (as Mn)	1 mg/m3	Not Avail	able	Not Available	Not Available
Australia Exposure Standards	ferric oxide	Iron oxide fume (Fe2O3) (as Fe)	5 mg/m3	Not Avail	able	Not Available	Not Available
Australia Exposure Standards	ferric oxide	Rouge dust	10 mg/m3	Not Avail	able	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	ethyl acetate	Ethyl acetate	200 ppm / 720 mg/m3	1440 mg/ / 400 ppn		Not Available	Not Available
Australia Exposure Standards	manganese dioxide	Manganese, dust & compounds (as Mn)	1 mg/m3	Not Avail	able	Not Available	Not Available
Australia Exposure Standards	biphenyl	Biphenyl	0.2 ppm / 1.3 mg/m3	Not Avail	able	Not Available	Not Available
Australia Exposure Standards	titanium dioxide	Titanium dioxide	10 mg/m3	Not Avail	able	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	magnesite	Magnesite	10 mg/m3	Not Avail	able	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Ingredient	Original IDLH				Rev	ised IDLH	
lithium nickel oxide	10 mg/m3				Not	Available	
carbon, activated	Not Available					Available	
iron	Not Available					Available	
copper	100 mg/m3					Available	
aluminium	Not Available					Available	
lithium cobaltate	Not Available					Available	
dimethyl carbonate	Not Available				Not Available		
lithium manganate	500 mg/m3					Not Available	
polyethylene	Not Available				Not	Not Available	
ethylene carbonate	Not Available				Not	Available	
lithium fluorophosphate				Not	Available		
graphite				Not	Available		
ethyl methyl carbonate	Not Available				Not	Available	
nickel	10 mg/m3				Not	Available	
dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol	Not Available			Not.	Available		
polypropylene	Not Available			Not.	Available		
nickel(II) sulfide	10 mg/m3			Not.	Available		
imide resin	Not Available				Not	Available	
silicon	Not Available				Not	Available	
lithium carbonate	Not Available				Not	Available	
carbon black	1,750 mg/m3				Not	Available	
styrene/ butadiene copolymer	Not Available				Not	Available	
poly(ethylene-co-vinyl acetate- co-carbon monoxide) low density	Not Available				Not.	Available	
sodium carboxymethylcellulose	Not Available				Not	Available	
succinonitrile	25 mg/m3				Not	Available	
lithium aluminate	Not Available				Not.	Available	
lithium nickel manganese cobalt oxide	500 mg/m3 / 10 mg/m3	500 mg/m3 / 10 mg/m3			Not	Available	
lithium nickel cobalt oxide	10 mg/m3	10 mg/m3			Not	Available	
vinylidene fluoride homopolymer	Not Available			Not	Available		
silicon monoxide	Not Available			Not	Available		
methyl propionate	Not Available			Not	Available		
fluoroethylene carbonate	Not Available				Not	Available	
boehmite	Not Available			Not	Available		
N-methyl-2-pyrrolidone	Not Available			Not	Available		
chromium	250 mg/m3				Not Available		
ethylbenzene	Not Available					Available	
cobalt lithium manganese	E00 mg/=-0 / 40 / 1				, ki -	Aveilal-1-	
nickelate	500 mg/m3 / 10 mg/m3	3			JON	Available	

Version No: 5.1 Lithium-ion Battery - Rechargeable (Brand AEG)

Page 6 of 27 Issue Date: 28/10/2024

Print Date: 11/11/2024

Ingredient	Original IDLH	Revised IDLH
ferric oxide	2,500 mg/m3	Not Available
ethyl acetate	Not Available	Not Available
cobalt (II) oxide	Not Available	Not Available
manganese dioxide	500 mg/m3	Not Available
nickel oxide	10 mg/m3	Not Available
biphenyl	100 mg/m3	Not Available
titanium dioxide	5,000 mg/m3	Not Available
cobalt(III) oxide monohydrate	Not Available	Not Available
cobalt oxide (tetroxide)	Not Available	Not Available
magnesite	Not Available	Not Available
N- lithiotrifluoromethanesulfonimide	Not Available	Not Available
itaconic acid/ 1,3-butadiene/ styrene copolymer	Not Available	Not Available
adiponitrile	25 mg/m3	Not Available
lithium iron phosphate	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
lithium nickel oxide	Е	≤ 0.01 mg/m³		
lithium cobaltate	E	≤ 0.01 mg/m³		
ethylene carbonate	E	≤ 0.01 mg/m³		
lithium fluorophosphate	E	≤ 0.01 mg/m³		
imide resin	E	≤ 0.01 mg/m³		
lithium carbonate	E	≤ 0.01 mg/m³		
succinonitrile	E	≤ 0.01 mg/m³		
lithium nickel cobalt oxide	D	> 0.01 to ≤ 0.1 mg/m³		
silicon monoxide	E	≤ 0.01 mg/m³		
methyl propionate	E	≤ 0.1 ppm		
fluoroethylene carbonate	E	≤ 0.1 ppm		
cobalt (II) oxide	E	≤ 0.01 mg/m³		
nickel oxide	D	> 0.01 to ≤ 0.1 mg/m³		
cobalt oxide (tetroxide)	E	≤ 0.01 mg/m³		
N- lithiotrifluoromethanesulfonimide	Е	≤ 0.01 mg/m³		
adiponitrile	E	≤ 0.1 ppm		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.			

MATERIAL DATA

Exposure controls

Appropriate engineering controls	General exhaust is adequate under normal operating conditions. Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use. Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.
Individual protection measures, such as personal protective equipment	
Eye and face protection	None under normal operating conditions. OTHERWISE: ► Safety glasses.
Skin protection	See Hand protection below
Hands/feet protection	None under normal operating conditions. OTHERWISE: ▶ Rubber Gloves
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Lithium-ion Battery - Rechargeable (Brand AEG)

Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

Material	СРІ
BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23 2-PLY	С
SARANEX-23	С
TEFLON	С
VITON	С
VITON/CHLOROBUTYL	С

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AK-AUS P2	-	AK-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AK-AUS / Class 1 P2	-
up to 100 x ES	-	AK-2 P2	AK-PAPR-2 P2 ^

^{^ -} Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Respiratory protection not normally required due to the physical form of the product.

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties Appearance Odourless solid (battery); insoluble in water

Appearance	Odouriess solid (battery); insoluble in water.		
Physical state	Manufactured	Relative density (Water = 1)	Not Available
Odour	No Odour	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Applicable
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7

^{*} CPI - Chemwatch Performance Index

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

Hazardous decomposition products

See section 5

SECTION 11 Toxicological information

ation on toxicological eff	ects			
Inhaled	Vapors or fumes may cause respiratory tract irritation. Not normally a hazard due to physical form of product.			
Ingestion	Considered an unlikely route of entry in commercial/industrial environments Ingestion may result in nausea, abdominal irritation, pain and vomiting			
Skin Contact	The electrolyte causes severe skin burns and irritation. Not normally a hazard due to physical form of product.			
Eye	The electrolyte causes eye irritation and damage. Not normally a hazard due to physical form of product.			
Chronic	The chemicals in this product are contained in a sealed case Not normally a hazard due to physical form of product.	se and exposure does not occur during normal handling and use.		
Lithium-ion Battery	. TOXICITY	IRRITATION		
Rechargeable (Brand AEG	Not Available	Not Available		
	TOXICITY	IRRITATION		
lithium nickel oxid	Oral (Rat) LD50: >2000 mg/kg ^[1]	Not Available		
	TOXICITY	IRRITATION		
carbon, activate	Oral (Rat) LD50: >2000 mg/kg ^[1]	Not Available		
	TOXICITY	IRRITATION		
iro	n Oral (Rat) LD50: 98600 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]		
		Skin: no adverse effect observed (not irritating) ^[1]		
	TOXICITY	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]		
сорре	Inhalation (Rat) LC50: 0.733 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]		
	Oral (Mouse) LD50; 0.7 mg/kg ^[2]			
	тохісіту	IRRITATION		
aluminiur	n Inhalation (Rat) LC50: >2.3 mg/l4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]		
	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]		
	тохісіту	IRRITATION		
lishi	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]		
lithium cobaltat	Inhalation (Rat) LC50: 5.05 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]		
	Oral (Rat) LD50: >5000 mg/kg ^[1]			
	тохісіту	IRRITATION		
Positi I and a sec	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]		
dimethyl carbonat	Inhalation (Rat) LC50: >5.36 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]		
	Oral (Rat) LD50: >5000 mg/kg ^[1]			
	TOXICITY	IRRITATION		
lithium manganat	Not Available	Not Available		
	тохісіту	IRRITATION		
polyethylen	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available		
	Oral (Rat) LD50: >2000 mg/kg ^[1]			
	TOXICITY	IRRITATION		
adiodes	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]		
ethylene carbonat	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin (Rodent - rabbit): 660mg - Mild		
		Skin: no adverse effect observed (not irritating) ^[1]		
	TOXICITY	IRRITATION		
lithium fluorophosphat	oral (Rat) LD50: 50-300 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]		
		Skin: adverse effect observed (corrosive) ^[1]		

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

	TOXICITY	IRRITATION	
graphite	Inhalation (Rat) LC50: >2 mg/L4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: >200 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
ethyl methyl carbonate	Inhalation (Rat) LC50: >17.6 mg/l4h ^[1]	Not Available	
	Oral (Rat) LD50: >5000 mg/kg ^[1]		
	TOXICITY	IRRITATION	
nickel	Oral (Rat) LD50: 5000 mg/kg ^[2]	Not Available	
	TOXICITY	IRRITATION	
dimethyl terephthalate/ cyclohexanedimethanol/ eth.	Dermal (Guinea Pig) LD50: >1000 mg/kg ^[2]	Not Available	
glycol	Oral (Rat) LD50: >3200 mg/kg ^[2]		
	TOXICITY	IRRITATION	
polypropylene	Oral (Mouse) LD50; 3200 mg/kg ^[2]	Not Available	
	TOXICITY	IRRITATION	
nickel(II) sulfide	Inhalation (Rat) LC50: 0.924 mg/l4h ^[1]	Not Available	
mekei(ii) sumue	Oral (Rat) LD50: >5000 mg/kg ^[1]		
	TOXICITY	IRRITATION	
imide resin	Not Available	Not Available	
		1	
	TOXICITY	IRRITATION	
silicon	Dermal (rabbit) LD50: >5000 mg/kg ^[1]	Eye (Rodent - rabbit): 3mg - Mild	
	Oral (Rat) LD50: 3160 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
		Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
lithium carbonate	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]	
	Inhalation (Rat) LC50: >0.8 mg/L4h ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: 525 mg/kg ^[2]		
	тохісіту	IRRITATION	
carbon black	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
styrene/ butadiene copolymer	Dermal (rabbit) LD50: >20000 mg/kg ^[2]	Eye (Rodent - rabbit): 500mg/24H - Mild	
	Oral (Rat) LD50: 71000 mg/kg ^[2]	Skin (Rodent - rabbit): 500mg - Mild	
poly(ethylene-co-vinyl acetate-	TOXICITY	IRRITATION	
co-carbon monoxide) low density	Not Available	Not Available	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Not Available	
sodium carboxymethylcellulose	Inhalation (Rat) LC50: >5.8 mg/L4h ^[2]		
	Oral (Guinea) LD50; 16000 mg/kg ^[2]		
	TOXICITY	IRRITATION	
succinonitrile	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
	Oral (Mouse) LD50; 129 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
lithium aluminate	Not Available	Not Available	
lithium nickel manganese cobalt	TOXICITY	IRRITATION	
lithium nickel manganese cobalt oxide	Not Available	Not Available	

Chemwatch: **5514-17** Page **10** of **27** Issue Date: 28/10/2024 Version No: 5.1 Print Date: 11/11/2024 Lithium-ion Battery - Rechargeable (Brand AEG)

	Not Available	Not Available
	тохісіту	IRRITATION
inylidene fluoride homopolymer	Not Available	Not Available
	TOXICITY	IRRITATION
silicon monoxide	Not Available	Not Available
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >5000 mg/kg ^[2]	Eye: adverse effect observed (irreversible damage) ^[1]
methyl propionate	Inhalation (Rat) LC50: >22.7 mg/l4h ^[1]	Skin (Rodent - rabbit): 500mg/24H - Moderate
	Oral (Rat) LD50: 5000 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION Not Available
fluoroethylene carbonate	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available
	Oral (Rat) LD50: ~500 mg/kg ^[1]	
	TOXICITY	IRRITATION
boehmite	Inhalation (Rat) LC50: >2.3 mg/l4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 8000 mg/kg ^[2]	Eye (Human): 530ppm/30M - Mild
	Inhalation (Rat) LC50: 3.1-8.8 mg/l4h ^[2]	Eye (Rodent - rabbit): 0.1mL
N-methyl-2-pyrrolidone	Oral (Rat) LD50: 3914 mg/kg ^[2]	Eye (Rodent - rabbit): 100mg - Moderate
		Eye: adverse effect observed (irritating) ^[1]
		Skin: adverse effect observed (irritating) ^[1]
	TOXICITY	IRRITATION
chromium	Inhalation (Rat) LC50: >5.41 mg/l4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
on onlan	Oral (Rat) LD50: >5000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION
ethylbenzene	Dermal (rabbit) LD50: 17800 mg/kg ^[2]	Eye (Rodent - rabbit): 500mg - Severe
	Inhalation (Rat) LC50: 17.2 mg/l4h ^[2]	Skin (Rodent - rabbit): 15mg/24H - Mild
	Oral (Rat) LD50: 3500 mg/kg ^[2]	
	TOXICITY	IRRITATION
cobalt lithium manganese nickelate	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available
	Oral (Rat) LD50: >2000 mg/kg ^[1]	
	TOXICITY	IRRITATION
ferric oxide	Oral (Rat) LD50: >5000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
		Skin: no adverse effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >18000 mg/kg ^[2]	Eye (Human): 400ppm
ethyl acetate	Inhalation (Mouse) LC50: >18 mg/l4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
	Oral (Mouse) LD50; 4100 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]
cobalt (II) oxide	TOXICITY Oral (Both I DEO: 202 mg/l/cs[2]	IRRITATION Not Available
	Oral (Rat) LD50: 202 mg/kg ^[2]	Not Available
	TOXICITY	IRRITATION
manganese dioxide	Oral (Rat) LD50: >3478 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
		Skin: no adverse effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION
nickel oxide	Inhalation (Rat) LC50: >5.08 mg/l4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
nickel oxide	Inhalation (Rat) LC50: >5.08 mg/l4h ^[1] Oral (Rat) LD50: >5000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1]

dermal (rat) LD50: >2000 mg/kg^[1]

Oral (Rat) LD50: >5000 mg/kg^[1]

TOXICITY

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Page 11 of 27 Issue Date: 28/10/2024 Version No: 5.1 Print Date: 11/11/2024 Lithium-ion Battery - Rechargeable (Brand AEG)

	Dermal (rabbit) LD50: >5010 mg/kg ^[2]	Eye (Rodent - rabbit): 100mg - Mild
	Inhalation (Mouse) LC50: >0.275 mg/l4h ^[2]	Eye: adverse effect observed (irritating) ^[1]
	Oral (Rat) LD50: 2400 mg/kg ^[2]	Skin (Rodent - rabbit): 500uL/24H - Severe
		Skin: adverse effect observed (irritating) ^[1]
	TOVIOITY	
	TOXICITY	IRRITATION
	dermal (hamster) LD50: >=10000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
titanium dioxide		
titanium dioxide	dermal (hamster) LD50: >=10000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]

cobalt oxide (tetroxide)

cobalt(III) oxide monohydrate

TOXICITY	IRRITATION
dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) $^{[1]}$
Inhalation (Rat) LC50: >4.83 mg/l4h ^[2]	Skin: no adverse effect observed (not irritating) ^[1]
Oral (Rat) LD50: >5000 mg/kg ^[2]	

IRRITATION

Eye: no adverse effect observed (not irritating)^[1]

Skin: no adverse effect observed (not irritating) $^{[1]}$

magnesite

Oral (Mouse) LD50; 7000 mg/kg ^[2]	Not Available
TOXICITY	IRRITATION
Dermal (rabbit) LD50: 371 mg/kg ^[1]	Not Available
Oral (Rat) LD50: 160 mg/kg ^[2]	

itaconic acid/ 1,3-butadiene/

lithiotrifluoromethanesulfonimide

TOXICITY	IRRITATION
Not Available	Not Available

adiponitrile

styrene copolymer

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye (Rodent - rabbit): 0.1mL - Mild
Inhalation (Rat) LC50: 1.71 mg/L4h ^[2]	Eye: adverse effect observed (irritating) ^[1]
Oral (Rabbit) LD50; 22 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) $[1]$

lithium iron phosphate

TOXICITY	IRRITATION
dermal (rat) LD50: 2000 mg/kg ^[1]	Not Available
Inhalation (Rat) LC50: >3.2 mg/l4h ^[1]	
Oral (Rat) LD50: >2000 mg/kg ^[1]	

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

COPPER

WARNING: Inhalation of high concentrations of copper fume may cause "metal fume fever", an acute industrial disease of short duration. Symptoms are tiredness, influenza like respiratory tract irritation with fever. for copper and its compounds (typically copper chloride):

Acute toxicity: There are no reliable acute oral toxicity results available. In an acute dermal toxicity study (OECD TG 402), one group of 5 male rats and 5 groups of 5 female rats received doses of 1000, 1500 and 2000 mg/kg bw via dermal application for 24 hours. The LD50 values of copper monochloride were 2,000 mg/kg bw or greater for male (no deaths observed) and 1,224 mg/kg bw for female.

LITHIUM COBALTATE

Allergic reactions which develop in the respiratory passages as bronchial asthma or rhinoconjunctivitis, are mostly the result of reactions of the allergen with specific antibodies of the IgE class and belong in their reaction rates to the manifestation of the immediate type. In addition to the allergen-specific potential for causing respiratory sensitisation, the amount of the allergen, the exposure period and the genetically determined disposition of the exposed person are likely to be decisive. Factors which increase the sensitivity of the mucosa may play a role in predisposing a person to allergy. Particular attention is drawn to so-called atopic diathesis which is characterised by an increased susceptibility to allergic rhinitis, allergic bronchial asthma and atopic eczema (neurodermatitis) which is associated with increased IgE synthesis. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure.

POLYETHYLENE

polyethylene pyrolyzate

Inclusion of polyethylene in the diet of rats at 8 g/kg/day did not result in treatment-related effects. Polyethylene implanted into rats and mice has reportedly caused local tumorigenic activity at doses of 33 to 2120 mg/kg, but the relevance to human exposure is not certain.

ETHYLENE CARBONATE

for ethylene carbonate

Mammalian toxicity: Reliable acute toxicity tests are available on ethylene carbonate. Ethylene carbonate is practically nontoxic following acute oral exposure in a test that meets OECD and EPA test guidelines; the LD50 is >5000 mg/kg. The dermal LD50 is >2000 mg/kg, in a test that meets OECD and EPA test guidelines. Ethylene carbonate is rapidly metabolized to ethylene glycol.

For ethylene glycol:

Chemwatch: **5514-17** Page **12** of **27**

Version No: 5.1

Lithium-ion Battery - Rechargeable (Brand AEG)

	Ethylene glycol is quickly and extensively absorbed through the gastrointestinal tract. Limited information suggests that it is also absorbed through the respiratory tract; dermal absorption is apparently slow. Following absorption, ethylene glycol is distributed throughout the body according to total body water.
NICKEL	Oral (rat) TDLo: 500 mg/kg/5D-I Inhalation (rat) TCLo: 0.1 mg/m3/24H/17W-C Tenth Annual Report on Carcinogens: Substance anticipated to be Carcinogen [National Toxicology Program: U.S. Dep. of Health & Human Services 2002]
DIMETHYL TEREPHTHALATE/ CYCLOHEXANEDIMETHANOL/ETH. GLYCOL	For polyethylene terephthalate (PET polyesters) and its derivatives No adverse effects described in animals from short exposures by inhalation, ingestion or skin contact. Animal testing indicates that this compound does not have carcinogenic mutagenic, embryotoxic, nor reproductive effects. * DuPont Acetaldehyde forms by degradation of PET through the mishandling of the material. At high temperatures, (PET decomposes above 300 C or 570 F), high pressures, extruder speeds (excessive shear flow raises temperature) and long barrel residence times all contribute to the production of acetaldehyde.
POLYPROPYLENE	* For pyrolyzate
NICKEL(II) SULFIDE	NOTE: IARC Cancer Review: Animal Sufficient Evidence.
IMIDE RESIN	Polyimides displayed an insignificant level of cell culture cytotoxicity and haemolysis, and in the presence of whole blood, clotting times ranged from 63 to 98% of normal. These clotting times and haemolytic index values were intermediate between the values observed for Teflon and Silastic controls. In addition polyimides adsorbed significant amounts of albumin (2-3 micrograms/cm2) and fibrinogen (0.5-0.8 microgram/cm2). These factors, along with the strong adherence of polyimides to metal oxide substrates, indicate that polyimide materials are good candidates for further testing as encapsulants for implantable biosensors Polyetherimides, based on bisphenol A and its close analogues, represent a potential reproductive hazard (as endocrine disruptors of fertility) to fertility.
SILICON	Intraperitoneal injection of silicon produced only minor local trauma and foreign body reaction. Parenterally administered elemental silica is considered biologically inert. Dogs and rats fed 800 mg silicon/kg/day (as the dioxide) for 1 month showed no clinical signs or histological changes. The compound was largely eliminated in the faeces. Normal human cerebral cortex tissue contains about 3.8 ug/g silicon
LITHIUM CARBONATE	Lacrimation, altered sleep times, hallucinations, distorted perception, toxic psychosis, excitement, ataxia, respiratory depression, allergic dermatitis (after sytemic administration), foetoxicity and foetolethality and specific development abnormalities recorded. Non-sensitising guinea pig * * FMC SDS The material may trigger oculogyric crisis. The term "oculogyric" refers to the bilateral elevation of the visual gaze. Initial symptoms include restlessness, agitation, malaise, or a fixed stare. Then comes the more characteristically described extreme and sustained upward deviation of the eyes.
CARBON BLACK	Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported
SODIUM CARBOXYMETHYLCELLULOSE	Neoplastic by RTECS criteria While thought to be uncommon, case reports of severe reactions to carboxymethylcellulose exist. In one such instance, a woman was known to experience anaphylaxis following exposure. Skin testing is believed to be a useful diagnostic tool for this purpose. Effects on inflammation, microbiota-related metabolic syndrome, and colitis are a subject of research Carboxymethyl cellulose has been found to cause inflammation of the gut, altering microbiota, and was found to be a triggering factor of inflammatory bowel diseases such as ulcerative colitis and Crohn's disease
SUCCINONITRILE	Spastic paralysis, convulsions, nausea, changes in urine composition, foetotoxicity, specific developmental abnormalities (central nervous system) recorded.
LITHIUM ALUMINATE	For aluminium compounds: Aluminium present in food and drinking water is poorly absorbed through the gastrointestinal tract. The bioavailability of aluminium is dependent on the form in which it is ingested and the presence of dietary constituents with which the metal cation can complex Ligands in food can have a marked effect on absorption of aluminium, as they can either enhance uptake by forming absorbable (usually water soluble) complexes (e.g., with carboxylic acids such as citric and lactic), or reduce it by forming insoluble compounds (e.g., with phosphate or dissolved silicate). Considering the available human and animal data it is likely that the oral absorption of aluminium can vary 10-fold based on chemical form alone. Although bioavailability appears to generally parallel water solubility, insufficient data are available to directly extrapolate from solubility in water to bioavailability. For oral intake from food, the European Food Safety Authority (EFSA) has derived a tolerable weekly intake (TWI) of 1 milligram (mg) of aluminium per kilogram of bodyweight.
SILICON MONOXIDE	For silica amorphous: Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d. In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show little evidence of adverse health effects due to SAS. Repeated exposure (without personal protection) may cause mechanical irritation of the eye and drying/cracking of the skin. When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated.
METHYL PROPIONATE	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.
FLUOROETHYLENE CARBONATE	A study was performed to assess the skin sensitisation potential of Monofluoroethylene carbonate in the CBA/Ca strain mouse following topical application to the dorsal surface of the ear. The test material was considered to be a sensitiser under the conditions of the test. An inverse dose response relationship was noted in the Stimulation Index results. The reason for this is unknown but could be due to decreased bioactivity of the test material with increasing concentrations in dimethyl formamide, or due to immunosuppression at higher concentrations of test material. Genetic toxicity: in vitro Significant increases of revertant colonies were observed in Salmonella typhimurium TA98 in the presence of metabolic activation system and Salmonella typhimurium TA 100 in the absence and presence of metabolic activation system. It is concluded that Monofluoroethylene carbonate exhibited mutagenic activity in Salmonella typhimurium TA98, TA 100 under the conditions employed for this test. Genetic toxicity: in vivo Monofluoroethylene carbonate was cytotoxic to bone marrow cells, but did not show any indication of chromosomal damage and/or damage to the mitotic apparatus of the bone marrow cells, but did not show any indication of chromosomal damage and/or damage to the mitotic apparatus of the bone marrow cells, but did not show any indication of chromosomal damage and/or damage to the mitotic apparatus of the bone marrow target cells in female mice, treated intraperitoneally with monofluoroethylene carbonate, up to 100 mg/kg bw., up to 100 mg/kg bw. *REACh Dossier
N-METHYL-2-PYRROLIDONE	for N-methyl-2-pyrrolidone (NMP): Acute toxicity: In rats, NMP is absorbed rapidly after inhalation, oral, and dermal administration, distributed throughout the organism, and eliminated mainly by hydroxylation to polar compounds, which are excreted via urine. About 80% of the administered dose is excreted as NMP and NMP metabolites within 24 h. A probably dose-dependent yellow coloration of the urine in rodents is observed. A substance (or part of a group of chemical substances) of very high concern (SVHC) - or product containing an SVHC:

Issue Date: 28/10/2024

Print Date: 11/11/2024

Chemwatch: 5514-17 Page 13 of 27 Issue Date: 28/10/2024
Version No: 5.1
Print Date: 11/11/2024

Lithium-ion Battery - Rechargeable (Brand AEG)

It is proposed that use within the European Union be subject to authorisation under the REACH Regulation. Indeed, listing of a substance as an SVHC by the European Chemicals Agency (ECHA) is the first step in the procedure for authorisation or restriction of use of a chemical. The criteria are given in article 57 of the REACH Regulation. A substance may be proposed as an SVHC if it meets one or more of the following criteria: ▶ it is carcinogenic *; ▶ it is mutagenic *: ▶ it is toxic for reproduction *; it is persistent, bioaccumulative and toxic (PBT substances); it is very persistent and very bioaccumulative (vPvB substances); there is "scientific evidence of probable serious effects to human health or the environment which give rise to an equivalent level of concern"; such substances are identified on a case-by-case basis. Collectively described as CMR substances The "equivalent concern" criterion is significant because it is this classification which allows substances which are, for example, neurotoxic, endocrine-disrupting or otherwise present an unanticipated environmental health risk to be regulated under REACH] Simply because a substance meets one or more of the criteria does not necessarily mean that it will be proposed as an SVHC Gastrointestinal tumours, lymphoma, musculoskeletal tumours and tumours at site of application recorded. For chrome(III) and other valence states (except hexavalent): For inhalation exposure, all trivalent and other chromium compounds are treated as particulates, not gases. The mechanisms of chromium toxicity are very complex, and although many studies on chromium are available, there is a great deal of uncertainty about how chromium exerts its toxic influence. Much more is known about the mechanisms of CHROMIUM hexavalent chromium toxicity than trivalent chromium toxicity. There is an abundance of information available on the carcinogenic potential of chromium compounds and on the genotoxicity and mutagenicity of chromium compounds in experimental systems. Tenth Annual Report on Carcinogens: Substance known to be Carcinogenic [National Toxicology Program: U.S. Dep. of Health and Human Services 2002] Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) Ethylbenzene is readily absorbed following inhalation, oral, and dermal exposures, distributed throughout the body, and excreted primarily through urine. There are two different metabolic pathways for ethylbenzene with the primary pathway **ETHYLBENZENE** being the alpha-oxidation of ethylbenzene to 1-phenylethanol, mostly as the R-enantiomer. The pattern of urinary metabolite excretion varies with different mammalian species. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. COBALT (II) OXIDE Tumorigenic by RTECS criteria Neoplastic by RTECS criteria. for biphenyl: **BIPHENYL** Biphenyl is well absorbed through the gastrointestinal tract and presumably also via lung and skin. In those species examined, the metabolites of biphenyl, mainly 4-hydroxybiphenyl, are excreted rapidly and almost exclusively in the urine. The acute oral toxicity of biphenyl is moderate. Exposure to the material may result in a possible risk of irreversible effects. The material may produce mutagenic effects in man. This concern is raised, generally, on the basis of appropriate studies using mammalian somatic cells in vivo. For titanium dioxide: Humans can be exposed to titanium dioxide via inhalation, ingestion or dermal contact. In human lungs, the clearance TITANIUM DIOXIDE kinetics of titanium dioxide is poorly characterized relative to that in experimental animals. (General particle characteristics and host factors that are considered to affect deposition and retention patterns of inhaled, poorly soluble particles such as titanium dioxide are summarized in the monograph on carbon black.) With regard to inhaled titanium dioxide, human data are mainly available from case reports that showed deposits of titanium dioxide in lung tissue as well as in lymph nodes. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. No indication of mutagenic activity, * Merck MSDS The material may produce respiratory tract irritation. Symptoms of pulmonary irritation may include coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and a burning sensation. Unlike most organs, the lung can respond to a chemical insult or a chemical agent, by first removing or neutralising the irritant and then repairing the damage (inflammation of the lungs may be a consequence). LITHIOTRIFLUOROMETHANESULFONIMIDE The repair process (which initially developed to protect mammalian lungs from foreign matter and antigens) may, however, cause further damage to the lungs (fibrosis for example) when activated by hazardous chemicals. Often, this results in an impairment of gas exchange, the primary function of the lungs For adiponitrile: Oral and inhalation acute toxicity is reported in animal assays. Few reported human cases of skin irritation lead to consider adiponitrile as irritant although such effects on acute dermal exposure are not observed in animals. Adiponitrile is considered ADIPONITRILE as toxic and irritant accordingly. A NOEL of 0.03 mg/l was derived from repeated dose toxicity tests (inhalation route). No genotoxic effects were observed in any systems up to the maximum possible dose. LITHIUM NICKEL OXIDE & COPPER & LITHIUM COBALTATE & NICKEL & NICKEL(II) SULFIDE & LITHIUM NICKEL MANGANESE COBALT OXIDE & LITHIUM The following information refers to contact allergens as a group and may not be specific to this product. NICKEL COBALT OXIDE & Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The FLUOROFTHYLENE CARBONATE & pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. COBALT LITHIUM MANGANESE **NICKELATE & COBALT (II) OXIDE & NICKEL** OXIDE & COBALT OXIDE (TETROXIDE) LITHIUM NICKEL OXIDE & ETHYLENE **CARBONATE & LITHIUM** FLUOROPHOSPHATE & GRAPHITE & IMIDE **RESIN & SILICON & LITHIUM CARBONATE** Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a & SUCCINONITRILE & SILICON MONOXIDE non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels & N-METHYL-2-PYRROLIDONE & FERRIC of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-**OXIDE & ETHYL ACETATE & BIPHENYL &** atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to TITANIUM DIOXIDE & COBALT OXIDE the irritant. (TETROXIDE) & N-LITHIOTRIFLUOROMETHANESULFONIMIDE

& ADIPONITRILE

Chemwatch: 5514-17 Page 14 of 27 Issue Date: 28/10/2024 Version No: 5.1 Print Date: 11/11/2024

Lithium-ion Battery - Rechargeable (Brand AEG)

CARBON, ACTIVATED & ALUMINIUM & LITHIUM COBALTATE & LITHIUM **MANGANATE & LITHIUM FLUOROPHOSPHATE & GRAPHITE & ETHYL METHYL CARBONATE & IMIDE RESIN & SILICON & CARBON BLACK &** POLY(ETHYLENE-CO-VINYL ACETATE-CO-CARBON MONOXIDE) LOW DENSITY & LITHIUM ALUMINATE & LITHIUM NICKEL **MANGANESE COBALT OXIDE & LITHIUM** NICKEL COBALT OXIDE & VINYLIDENE **FLUORIDE HOMOPOLYMER & SILICON** MONOXIDE & BOEHMITE & CHROMIUM & **COBALT LITHIUM MANGANESE NICKELATE & MANGANESE DIOXIDE &** TITANIUM DIOXIDE & COBALT(III) OXIDE MONOHYDRATE & ITACONIC ACID/ 1.3-**BUTADIENE/ STYRENE COPOLYMER &** LITHIUM IRON PHOSPHATE

No significant acute toxicological data identified in literature search.

CARBON, ACTIVATED & POLYETHYLENE & POLYPROPYLENE & STYRENE/ **BUTADIENE COPOLYMER & CHROMIUM** The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

LITHIUM COBALTATE & LITHIUM **CARBONATE & LITHIUM ALUMINATE &** LITHIUM NICKEL MANGANESE COBALT **OXIDE & LITHIUM NICKEL COBALT OXIDE**

& LITHIUM IRON PHOSPHATE

LITHIOTRIFLUOROMETHANESULFONIMIDE

Goitrogenic:

Goitrogens are substances that suppress the function of the thyroid gland by interfering with iodine uptake, which can, as a result, cause an enlargement of the thyroid, i.e., a goitre Goitrogens include:

- Vitexin, a flavanoid, which inhibits thyroid peroxidase thus contributing to goiter.
- lons such as thiocyanate and perchlorate which decrease iodide uptake by competitive inhibition; as a consequence of reduced thyroxine and triiodothyronine secretion by the gland, at low doses, this causes an increased release of thyrotropin (by reduced negative feedback), which then stimulates the gland

For poly-alpha-olefins (PAOs):

PAOs are highly branched isoparaffinic chemicals produced by oligomerisation of 1-octene, 1-decene, and/or 1-dodecene. The crude polyalphaolefin mixture is then distilled into appropriate product fractions to meet specific viscosity specifications and hydrogenated.

Read across data exist for health effects endpoints from the following similar hydrogenated long chain branched alkanes derived from a C8, C10, and/or C12 alpha olefins:

- POLYETHYLENE & POLYPROPYLENE
- Decene homopolymer
- Decene/dodecene copolymer
- Octene/decene/dodecene copolymer
- ▶ Dodecene trimer

The data for these structural analogs demonstrated no evidence of health effects. In addition, there is evidence in the literature that alkanes with 30 or more carbon atoms are unlikely to be absorbed when administered orally.

ETHYLENE CARBONATE & ETHYLBENZENE

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

FTHYLENE CARBONATE & ETHYLBENZENE & TITANIUM DIOXIDE

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

NICKEL & CARBON BLACK & ETHYLBENZENE & COBALT (II) OXIDE & TITANIUM DIOXIDE

WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

SILICON & STYRENE/ BUTADIENE **COPOLYMER & BIPHENYL**

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

Data either not available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Source
Lithium-ion Battery - Rechargeable (Brand AEG)	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Sourc
carbon, activated	EC50(ECx)	48h	Crustacea	>10mg/l	2
	EC50	48h	Crustacea	>10mg/l	2
iron	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	18mg/l	2

Continued...

Page **15** of **27**

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

	NOFO/FO:	401-	Alasa an ath an anniation alone.	0.4.4===/1	
	NOEC(ECx)	48h 48h	Algae or other aquatic plants Crustacea	0.1-4mg/l >100mg/l	2
	LC50	96h	Fish	0.005- 0.008mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	72h	Algae or other aquatic plants	0.011- 0.017mg/L	4
copper	EC50	96h	Algae or other aquatic plants	0.03- 0.058mg/l	4
	NOEC(ECx)	48h	Fish	<0.001mg/L	4
	EC50	48h	Crustacea	<0.001mg/L	4
	LC50	96h	Fish	0.003mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	72h	Algae or other aquatic plants	0.017mg/L	2
	EC50	96h	Algae or other aquatic plants	0.005mg/L	2
aluminium	NOEC(ECx)	72h	Algae or other aquatic plants	>100mg/l	1
	EC50	48h	Crustacea	0.736mg/L	2
	LC50	96h	Fish	0.078-	2
				0.108mg/l	
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	96h	Algae or other aquatic plants	23.8mg/l	2
lithium cobaltate	EC50	72h	Algae or other aquatic plants	0.029mg/L	2
minum oobunate	EC10(ECx)	168h	Crustacea	0.001mg/L	2
	EC50	48h	Crustacea	0.241mg/L	2
	LC50	96h	Fish	0.8mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	96h	Algae or other aquatic plants	166.6- 211mg/l	2
dimethyl carbonate	EC50	72h	Algae or other aquatic plants	>57.29mg/l	2
	NOEC(ECx)	504h	Crustacea	25mg/l	2
	LC50	96h	Fish	>=100mg/l	2
	EC50	48h	Crustacea	>74.16mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
lithium manganate	Not Available	Not Available	Not Available	Not Available	Not Availab
	Endpoint	Test Duration (hr)	Species	Value	Source
polyethylene	Not Available	Not Available	Not Available	Not Available	Not Availab
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>100mg/l	2
ethylene carbonate	LC50	96h	Fish	>100mg/l	2
Striyiono dai bonate	EC50	48h	Crustacea	>100mg/l	2
	NOEC(ECx)	72h	Algae or other aquatic plants	100mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	96h	Algae or other aquatic plants	43mg/l	2
				62mg/l	2
	EC50	72h	Algae or other aquatic plants		
lithium fluorophosphate		72h 528h	Algae or other aquatic plants Fish	0.2mg/l	2
lithium fluorophosphate	EC50				2
lithium fluorophosphate	EC50 NOEC(ECx)	528h	Fish	0.2mg/l	
lithium fluorophosphate	EC50 NOEC(ECx) EC50	528h 48h	Fish Crustacea	0.2mg/l 98mg/l	2
lithium fluorophosphate	EC50 NOEC(ECx) EC50 LC50	528h 48h 96h	Fish Crustacea Fish	0.2mg/l 98mg/l 42mg/l	2
lithium fluorophosphate	EC50 NOEC(ECx) EC50 LC50 Endpoint	528h 48h 96h Test Duration (hr)	Fish Crustacea Fish Species	0.2mg/l 98mg/l 42mg/l Value	2 2 Source
	EC50 NOEC(ECx) EC50 LC50 Endpoint EC50	528h 48h 96h Test Duration (hr) 72h	Fish Crustacea Fish Species Algae or other aquatic plants	0.2mg/l 98mg/l 42mg/l Value >100mg/l	2 2 Source 2
	EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 NOEC(ECx)	528h 48h 96h Test Duration (hr) 72h 96h	Fish Crustacea Fish Species Algae or other aquatic plants Fish	0.2mg/l 98mg/l 42mg/l Value >100mg/l >=100mg/l	2 2 Source 2 2
	EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 NOEC(ECx) EC50	528h 48h 96h Test Duration (hr) 72h 96h 48h	Fish Crustacea Fish Species Algae or other aquatic plants Fish Crustacea	0.2mg/l 98mg/l 42mg/l Value >100mg/l >=100mg/l	2 2 2 2 2 2
graphite	EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 NOEC(ECx) EC50 LC50	528h 48h 96h Test Duration (hr) 72h 96h 48h 96h	Fish Crustacea Fish Species Algae or other aquatic plants Fish Crustacea Fish	0.2mg/l 98mg/l 42mg/l Value >100mg/l >=100mg/l >100mg/l >100mg/l	2 2 2 2 2 2 2
graphite	EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 NOEC(ECx) EC50 LC50 Endpoint	528h 48h 96h Test Duration (hr) 72h 96h 48h 96h Test Duration (hr)	Fish Crustacea Fish Species Algae or other aquatic plants Fish Crustacea Fish Species	0.2mg/l 98mg/l 42mg/l Value >100mg/l >=100mg/l >100mg/l Value	2 2 2 2 2 2 Source Source

Page 16 of 27

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: 28/10/2024 Print Date: 11/11/2024

EC50 48h Crustacea >100mg/l 2 Endpoint Test Duration (hr) Species Value Source FC50 72h Algae or other aquatic plants 0.18ma/l 1 0.174-EC50 96h Algae or other aquatic plants 4 0.311mg/L nickel EC50(ECx) 72h Algae or other aquatic plants 0.18mg/l 1 EC50 48h >100mg/l 1 LC50 96h Fish 0.06mg/L 4 Species Endpoint Test Duration (hr) Value Source dimethyl terephthalate/ cyclohexanedimethanol/ eth. Not >100mg/l LC50 96h Fish Available **Endpoint** Test Duration (hr) Species Value Source polypropylene Not Not Not Available Not Available Available Available Available **Endpoint** Test Duration (hr) Species Value Source EC50 96h Algae or other aquatic plants 0.36mg/l 2 EC50 72h 0.041mg/L 2 Algae or other aquatic plants nickel(II) sulfide EC10(ECx) 720h 0.001mg/L 2 Crustacea EC50 48h Crustacea 0.097mg/L 2 LC50 96h Fish 0.35mg/l 2 Source **Endpoint** Test Duration (hr) Species Value imide resin Not Not Available Not Available Available Available Available **Endpoint** Test Duration (hr) Species Value Source silicon EC50 72h Algae or other aquatic plants ~250mg/l 2 1.28h >=66<=88mg/l 2 EC10(ECx) Algae or other aquatic plants **Endpoint** Test Duration (hr) Species Value Source EC50 72h Algae or other aquatic plants >400mg/l 2 lithium carbonate EC50 48h Crustacea 33.2mg/l 2 NOEC(ECx) 504h Crustacea 1.7mg/l 2 8.1mg/L 4 96h Fish LC50 Test Duration (hr) Value **Endpoint** Species Source EC50 72h Algae or other aquatic plants >0.2mg/l NOEC(ECx) 24h Crustacea 3200mg/l carbon black 33.076-4 EC50 48h Crustacea 41.968mg/l LC50 96h Fish >100mg/l 2 Test Duration (hr) Endpoint Species Value Source styrene/ butadiene copolymer Not Not Not Not Available Not Available Available Available Available Test Duration (hr) Species Value **Endpoint** Source poly(ethylene-co-vinyl acetate-Not Not Not co-carbon monoxide) low density Not Available Not Available Available Available Available **Endpoint** Test Duration (hr) Species Value Source LC50 96h Fish >20000mg/L 4 46.04sodium carboxymethylcellulose EC50 48h Crustacea 4 165.37mg/l 46.04-EC50(ECx) 48h 4 Crustacea 165.37mg/l **Endpoint** Test Duration (hr) **Species** Value Source NOEC(ECx) 504h Crustacea 0.784mg/l succinonitrile EC50 48h Crustacea >100mg/l 2 96h 2 LC50 Fish >100ma/l Endpoint Test Duration (hr) Species Value Source lithium aluminate Not Available Not Available Available Available Available

Page 17 of 27

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

	F	Total Boundie (III)	0		
lithium nickel manganese cobalt	Endpoint Not	Test Duration (hr)	Species	Value Not	Source Not
oxide	Available	Not Available	Not Available	Available	Available
	Endpoint	Test Duration (hr)	Species	Value	Source
lithium nickel cobalt oxide	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
vinylidene fluoride homopolymer	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
silicon monoxide	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	96h	Algae or other aquatic plants	>500mg/L	4
methyl propionate	EC50	72h	Algae or other aquatic plants	>500mg/L	4
	NOEC(ECx)	504h	Crustacea	3.2mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	6.3mg/l	2
fluoroethylene carbonate	NOEC(ECx)	48h	Crustacea	2.8mg/l	Not Available
, , , , , , , , , , , , , , , , , , , ,	EC50	48h	Crustacea	8.4mg/l	Not Available
	LC50	96h	Fish	6- 60mg/l	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	96h	Algae or other aquatic plants	0.024mg/l	2
	EC50	72h	Algae or other aquatic plants	0.2mg/l	2
boehmite	NOEC(ECx)	72h	Algae or other aquatic plants	>=0.004mg/l	2
	EC50	48h	Crustacea	1.5mg/l	2
	LC50	96h	Fish	0.078- 0.108mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>500mg/l	1
N-methyl-2-pyrrolidone	EC50	48h	Crustacea	ca.4897mg/l	1
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NOEC(ECx)	504h	Crustacea	12.5mg/l	2
	LC50	96h	Fish	464mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.026- 0.208mg/L	4
chromium	EC50	96h	Algae or other aquatic plants	36mg/L	4
Cilionium	EC50(ECx)	48h	Crustacea	<0.001mg/l	2
	EC50	48h	Crustacea	<0.001mg/l	2
	LC50	96h	Fish	0.106mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	96h	Algae or other aquatic plants	1.7- 7.6mg/L	4
	EC50	72h	Algae or other aquatic plants	2.4- 9.8mg/L	4
ethylbenzene	EC50(ECx)	24h	Algae or other aquatic plants	0.02- 938mg/L	4
	EC50	48h	Crustacea	1.37- 4.4mg/l	4
	LC50	96h	Fish	3.381- 4.075mg/L	4
1.16.20.	Endpoint	Test Duration (hr)	Species	Value	Source
cobalt lithium manganese nickelate	EC50	72h	Algae or other aquatic plants	>1mg/l	2
monorate	NOEC(ECx)	672h	Fish	>0.1<=1mg/l	2
ferric oxide	Endpoint	Test Duration (hr)	Species	Value	Source
		. ,			

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

NIOEC(ECv)	504h	Fish	0.52mg/l	2
NOEC(ECx)				2
LC50	96h	Fish	0.05mg/l	2
F d : 4	Total Describes (bas)	Organisa	Value	0
-		•		Source 4
			1800-	4
				1
				1
LC50	96h	Fish	>75.6mg/l	2
-	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available
Endpoint	Test Duration (hr)	Species	Value	Sourc
NOEC(ECx)	1560h	Fish	0.55mg/l	2
Endpoint	Test Duration (hr)	Species	Value	Source
-		•		2
				2
				2
				2
				2
2000	3011	11311	0.00mg/i	
Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	0.78mg/l	2
EC50	96h	Algae or other aquatic plants	1.3mg/l	2
LC50	96h	Fish	1.17- 1.81mg/L	4
EC50	48h	Crustacea	0.63- 0.85mg/l	4
NOEC(ECx)	48h	Crustacea	0.04ma/l	4
` ,		Ciustacea	0.04mg/i	1
Endpoint	Test Duration (hr)	Species	Value	Source
	1	'		
Endpoint	Test Duration (hr)	Species	Value	Sourc
Endpoint EC50	Test Duration (hr) 96h	Species Algae or other aquatic plants	Value 179.05mg/l	Sourc 2
Endpoint EC50 BCF EC50	Test Duration (hr) 96h 1008h 72h	Species Algae or other aquatic plants Fish	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l	Source 2
Endpoint EC50 BCF EC50 NOEC(ECx)	Test Duration (hr) 96h 1008h 72h 672h	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L	Source 2 7 4 2
Endpoint EC50 BCF EC50	Test Duration (hr) 96h 1008h 72h	Species Algae or other aquatic plants Fish Algae or other aquatic plants	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l	Source 2 7 4
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50	Test Duration (hr) 96h 1008h 72h 672h 48h 96h	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l	Source 2 7 4 2 2 4
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50 Endpoint	Test Duration (hr) 96h 1008h 72h 672h 48h 96h	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish Species	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l Value	Source 2 7 4 2 2 4
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50 Endpoint EC50	Test Duration (hr) 96h 1008h 72h 672h 48h 96h Test Duration (hr)	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish Species Algae or other aquatic plants	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l Value 23.8mg/l	Source 2 7 4 2 2 4
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 EC50	Test Duration (hr) 96h 1008h 72h 672h 48h 96h Test Duration (hr) 96h 72h	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish Species Algae or other aquatic plants Algae or other aquatic plants	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l Value 23.8mg/l 0.029mg/L	Sourc 2 7 4 2 2 4 Sourc 2 2 2
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 EC50 EC50 EC50 EC50	Test Duration (hr) 96h 1008h 72h 672h 48h 96h Test Duration (hr) 96h 72h	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish Species Algae or other aquatic plants Algae or other aquatic plants Crustacea	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l Value 23.8mg/l 0.029mg/L 0.001mg/L	Sourc 2 7 4 2 2 4
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 EC50	Test Duration (hr) 96h 1008h 72h 672h 48h 96h Test Duration (hr) 96h 72h	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish Species Algae or other aquatic plants Algae or other aquatic plants	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l Value 23.8mg/l 0.029mg/L	Source 2 7 4 2 2 4
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 EC50 EC50 EC50 EC10(ECx) EC50 LC50	Test Duration (hr) 96h 1008h 72h 672h 48h 96h Test Duration (hr) 96h 72h 168h 48h 96h	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish Species Algae or other aquatic plants Algae or other aquatic plants Crustacea Crustacea Fish	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l Value 23.8mg/l 0.029mg/L 0.001mg/L 0.241mg/L 0.8mg/l	Source 2 2 2 2 2 2 2 2 2
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 EC50 EC50 EC50	Test Duration (hr) 96h 1008h 72h 672h 48h 96h Test Duration (hr) 96h 72h 168h	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish Species Algae or other aquatic plants Algae or other aquatic plants Crustacea Crustacea Fish Species Species	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l Value 23.8mg/l 0.029mg/L 0.001mg/L 0.241mg/L 0.8mg/l	Source 2 2 2 2 2
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 EC10(ECx) EC50 LC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50	Test Duration (hr) 96h 1008h 72h 672h 48h 96h Test Duration (hr) 96h 72h 168h 48h 96h Test Duration (hr)	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish Species Algae or other aquatic plants Algae or other aquatic plants Crustacea Crustacea Fish Species Algae or other aquatic plants Algae or other aquatic plants Crustacea Crustacea Algae or other aquatic plants	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l Value 23.8mg/l 0.029mg/L 0.001mg/L 0.8mg/l Value 23.8mg/l Value 23.8mg/l	Sourc 2 7 4 2 2 4
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 EC10(ECx) EC50 LC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50	Test Duration (hr) 96h 1008h 72h 672h 48h 96h Test Duration (hr) 96h 72h 168h 48h 96h Test Duration (hr) 96h 72h	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish Species Algae or other aquatic plants Algae or other aquatic plants Crustacea Crustacea Crustacea Fish Species Algae or other aquatic plants Algae or other aquatic plants	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l Value 23.8mg/l 0.029mg/L 0.001mg/L 0.8mg/l Value 23.8mg/l 88mg/l	Sourc 2 4
Endpoint EC50 BCF EC50 NOEC(ECx) EC50 LC50 Endpoint EC50 EC10(ECx) EC50 LC50 Endpoint EC50 LC50 NOEC(ECx)	Test Duration (hr) 96h 1008h 72h 672h 48h 96h Test Duration (hr) 96h 72h 168h 48h 96h Test Duration (hr) 96h 72h 72h	Species Algae or other aquatic plants Fish Algae or other aquatic plants Fish Crustacea Fish Species Algae or other aquatic plants Algae or other aquatic plants Crustacea Crustacea Crustacea Fish Species Algae or other aquatic plants	Value 179.05mg/l <1.1-9.6 3.75- 7.58mg/l >=0.004mg/L 1.9mg/l 1.85- 3.06mg/l Value 23.8mg/l 0.029mg/L 0.001mg/L 0.241mg/L 0.8mg/l Value 23.8mg/l 9.8mg/l 9.8mg/l	Sourc 2 4
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Version No: **5.1**

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: 28/10/2024 Print Date: 11/11/2024

	NOEC(ECx)	48h	Crustacea	3.2mg/l	2
:tii	Endpoint	Test Duration (hr)	Species	Value	Source
itaconic acid/ 1,3-butadiene/ styrene copolymer	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
adiponitrile	EC50	72h	Algae or other aquatic plants	>97.4mg/l	2
	NOEC(ECx)	72h	Algae or other aquatic plants	>100mg/l	1
	EC50	48h	Crustacea	>1000mg/l	1
	LC50	96h	Fish	670mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>24mg/l	2
lithium iron phosphate	NOEC(ECx)	72h	Algae or other aquatic plants	>=24mg/l	2
	EC50	48h	Crustacea	>28mg/l	2
	LC50	96h	Fish	>28mg/l	2

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dimethyl carbonate	HIGH	HIGH
polyethylene	LOW	LOW
ethylene carbonate	HIGH	HIGH
ethyl methyl carbonate	HIGH	HIGH
polypropylene	LOW	LOW
lithium carbonate	LOW	LOW
succinonitrile	LOW	LOW
vinylidene fluoride homopolymer	LOW	LOW
methyl propionate	LOW	LOW
N-methyl-2-pyrrolidone	LOW	LOW
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
ethyl acetate	LOW (Half-life = 14 days)	LOW (Half-life = 14.71 days)
biphenyl	LOW (Half-life = 14 days)	LOW (Half-life = 4.58 days)
titanium dioxide	HIGH	HIGH
magnesite	LOW	LOW
adiponitrile	LOW	LOW

Bioaccumulative potential

Bioaccamalative potential	
Ingredient	Bioaccumulation
dimethyl carbonate	LOW (LogKOW = 0.2336)
polyethylene	LOW (LogKOW = 1.2658)
ethylene carbonate	LOW (LogKOW = -0.3388)
ethyl methyl carbonate	LOW (LogKOW = 0.7247)
polypropylene	LOW (LogKOW = 1.6783)
lithium carbonate	LOW (LogKOW = -0.4605)
succinonitrile	LOW (LogKOW = -0.99)
vinylidene fluoride homopolymer	LOW (LogKOW = 1.24)
methyl propionate	LOW (LogKOW = 0.84)
boehmite	LOW (BCF = 231)
N-methyl-2-pyrrolidone	LOW (BCF = 0.16)
ethylbenzene	LOW (BCF = 79.43)
ethyl acetate	HIGH (BCF = 3300)
biphenyl	MEDIUM (LogKOW = 3.98)
titanium dioxide	LOW (BCF = 10)
magnesite	LOW (LogKOW = -0.4605)
adiponitrile	LOW (BCF = 1)

Mobility in soil

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: 28/10/2024 Print Date: 11/11/2024

Ingredient	Mobility
dimethyl carbonate	LOW (Log KOC = 8.254)
polyethylene	LOW (Log KOC = 14.3)
ethylene carbonate	LOW (Log KOC = 9.168)
ethyl methyl carbonate	LOW (Log KOC = 15.22)
polypropylene	LOW (Log KOC = 23.74)
lithium carbonate	HIGH (Log KOC = 1)
succinonitrile	LOW (Log KOC = 28.23)
vinylidene fluoride homopolymer	LOW (Log KOC = 35.04)
methyl propionate	LOW (Log KOC = 6.423)
N-methyl-2-pyrrolidone	LOW (Log KOC = 20.94)
ethylbenzene	LOW (Log KOC = 517.8)
ethyl acetate	LOW (Log KOC = 6.131)
biphenyl	LOW (Log KOC = 6250)
titanium dioxide	LOW (Log KOC = 23.74)
magnesite	HIGH (Log KOC = 1)
adiponitrile	LOW (Log KOC = 96.05)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- Recycle wherever possible or consult manufacturer for recycling options.
 Consult State Land Waste Management Authority for disposal.

SECTION 14 Transport information

Labels Required



Marine Pollutant	NO
HAZCHEM	2Y

Land transport (ADG)

· · · · · · · · · · · · · · · ·	_			
14.1. UN number or ID number	3480	3480		
14.2. UN proper shipping name	LITHIUM ION BATTER	LITHIUM ION BATTERIES (including lithium ion polymer batteries)		
14.3. Transport hazard class(es)	Class Subsidiary Hazard			
14.4. Packing group	Not Applicable	Not Applicable		
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions for user	Special provisions Limited quantity	188 230 310 348 376 377 384 387 0		

Air transport (ICAO-IATA / DGR)

14.1. UN number	3480	3480				
14.2. UN proper shipping name	Lithium ion batteries (including lithium ion polymer batteries)					
	ICAO/IATA Class	9				
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable				
01400(00)	ERG Code	12FZ				
14.4. Packing group	Not Applicable	Not Applicable				
14.5. Environmental hazard	Not Applicable					
14.6. Special precautions for user	Special provisions		A88 A99 A154 A164 A183 A201 A213 A331 A334 A802			
	Cargo Only Packing Instructions		See 965			
	Cargo Only Maximum Qty / Pack		See 965			
	Passenger and Cargo Packing Instructions Forbidden		Forbidden			
	Passenger and Cargo Maximum	Qty / Pack	Forbidden			

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

Passenger and Cargo Limited Quantity Packing Instructions	Forbidden
Passenger and Cargo Limited Maximum Qty / Pack	Forbidden

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3480			
14.2. UN proper shipping name	LITHIUM ION BATTER	LITHIUM ION BATTERIES (including lithium ion polymer batteries)		
14.3. Transport hazard	IMDG Class	9		
class(es)	IMDG Subsidiary Ha	azard Not Applicable		
14.4. Packing group	Not Applicable			
14.5 Environmental hazard	Not Applicable			
	EMS Number	F-A, S-I		
14.6. Special precautions for user	Special provisions	188 230 310 348 376 377 384 387		
	Limited Quantities	0		

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
lithium nickel oxide	Not Available
carbon, activated	Not Available
iron	Not Available
copper	Not Available
aluminium	Not Available
lithium cobaltate	Not Available
dimethyl carbonate	Not Available
lithium manganate	Not Available
polyethylene	Not Available
ethylene carbonate	Not Available
lithium fluorophosphate	Not Available
graphite	Not Available
ethyl methyl carbonate	Not Available
nickel	Not Available
dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol	Not Available
polypropylene	Not Available
nickel(II) sulfide	Not Available
imide resin	Not Available
silicon	Not Available
lithium carbonate	Not Available
carbon black	Not Available
styrene/ butadiene copolymer	Not Available
poly(ethylene-co-vinyl acetate- co-carbon monoxide) low density	Not Available
sodium carboxymethylcellulose	Not Available
succinonitrile	Not Available
lithium aluminate	Not Available
lithium nickel manganese cobalt oxide	Not Available
lithium nickel cobalt oxide	Not Available
vinylidene fluoride homopolymer	Not Available
silicon monoxide	Not Available
methyl propionate	Not Available
fluoroethylene carbonate	Not Available
boehmite	Not Available
N-methyl-2-pyrrolidone	Not Available
chromium	Not Available
ethylbenzene	Not Available
cobalt lithium manganese nickelate	Not Available

Page **22** of **27**

Chemwatch: **5514-17** Issue Date: 28/10/2024 Version No: 5.1 Print Date: 11/11/2024 Lithium-ion Battery - Rechargeable (Brand AEG)

Product name	Group		
ferric oxide	Not Available		
ethyl acetate	Not Available		
cobalt (II) oxide	Not Available		
manganese dioxide	Not Available		
nickel oxide	Not Available		
biphenyl	Not Available		
titanium dioxide	Not Available		
cobalt(III) oxide monohydrate	Not Available		
cobalt oxide (tetroxide)	Not Available		
magnesite	Not Available		
N- lithiotrifluoromethanesulfonimide	Not Available		
itaconic acid/ 1,3-butadiene/ styrene copolymer	Not Available		
adiponitrile	Not Available		
lithium iron phosphate	Not Available		

14.7.3. Transport in bulk in accordance with the IGC Code

Ilhitum mode coxide Not Available curbon, activated Not Available copper Not Available curbon, activated Not Available curbon, activated Not Available lithium cobaltate Not Available lithium manganate Not Available lithium manganate Not Available lithium coophosphate Not Available lithium throughoughate Not Available lithium throughoughate Not Available lithium throughoughate Not Available linking Not Available linking Not Available linking Not Available lockedill sudifie Not Available linking ratio Not A	Product name	Ship Type				
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nickelate Not Available ferric oxide Not Available	ethylbenzene	Not Available				
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ethyl acetate Not Available	ferric oxide	Not Available				
,	ethyl acetate	Not Available				

Chemwatch: **5514-17**Page **23** of **27**Issue Date: **28/10/2024**Version No: **5.1**Print Date: **11/11/2024**

Lithium-ion Battery - Rechargeable (Brand AEG)

Product name Ship Type cobalt (II) oxide Not Available manganese dioxide Not Available nickel oxide Not Available bipheny Not Available titanium dioxide Not Available cobalt(III) oxide monohydrate Not Available cobalt oxide (tetroxide) Not Available Not Available magnesite Not Available lithiotrifluoromethanesulfonimide itaconic acid/ 1,3-butadiene/ Not Available styrene copolymer Not Available adiponitrile lithium iron phosphate Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

lithium nickel oxide is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

carbon, activated is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

iron is found on the following regulatory lists

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 2

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

copper is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule ${\bf 5}$

 $\label{eq:australia} \textbf{Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule \ 6}$

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

aluminium is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

lithium cobaltate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

dimethyl carbonate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

lithium manganate is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

polyethylene is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

ethylene carbonate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

lithium fluorophosphate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

graphite is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemwatch: 5514-17 Page 24 of 27 Issue Date: 28/10/2024

Lithium-ion Battery - Rechargeable (Brand AEG)

Version No. 5.1 Print Date: 11/11/2024

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

ethyl methyl carbonate is found on the following regulatory lists

Not Applicable

nickel is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

polypropylene is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

nickel(II) sulfide is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

imide resin is found on the following regulatory lists

Not Applicable

silicon is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

lithium carbonate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

carbon black is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

styrene/ butadiene copolymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

poly(ethylene-co-vinyl acetate-co-carbon monoxide) low density is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

sodium carboxymethylcellulose is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

succinonitrile is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

lithium aluminate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

lithium nickel manganese cobalt oxide is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

lithium nickel cobalt oxide is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

vinylidene fluoride homopolymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

silicon monoxide is found on the following regulatory lists

Version No. 5.1

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

Australian Inventory of Industrial Chemicals (AIIC)

methyl propionate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

fluoroethylene carbonate is found on the following regulatory lists

Not Applicable

boehmite is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

N-methyl-2-pyrrolidone is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule ${\bf 5}$

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

chromium is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

ethylbenzene is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

cobalt lithium manganese nickelate is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

ferric oxide is found on the following regulatory lists

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

ethyl acetate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

cobalt (II) oxide is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

manganese dioxide is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

nickel oxide is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

biphenyl is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

titanium dioxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: **28/10/2024**Print Date: **11/11/2024**

cobalt(III) oxide monohydrate is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

cobalt oxide (tetroxide) is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

magnesite is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

N-lithiotrifluoromethanesulfonimide is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

itaconic acid/ 1,3-butadiene/ styrene copolymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

adiponitrile is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

lithium iron phosphate is found on the following regulatory lists

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory Status				
National Inventory	Status			
Australia - AIIC / Australia Non- Industrial Use	No (lithium nickel oxide; lithium manganate; ethyl methyl carbonate; nickel(II) sulfide; imide resin; lithium nickel manganese cobalt oxide; lithium nickel cobalt oxide; fluoroethylene carbonate; cobalt lithium manganese nickelate; cobalt(III) oxide monohydrate; N-lithiotrifluoromethanesulfonimide; lithium iron phosphate)			
Canada - DSL	No (lithium nickel oxide; lithium manganate; lithium fluorophosphate; ethyl methyl carbonate; imide resin; lithium aluminate; lithium nickel manganese cobalt oxide; lithium nickel cobalt oxide; fluoroethylene carbonate; cobalt(III) oxide monohydrate)			
Canada - NDSL	No (lithium nickel oxide; carbon, activated; iron; copper; aluminium; lithium cobaltate; dimethyl carbonate; lithium manganate; polyethylene; ethylene carbonate; graphite; nickel; dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol; polypropylene; nickel(II) sulfide; imide resin silicon; lithium carbonate; carbon black; styrene/ butadiene copolymer; poly(ethylene-co-vinyl acetate-co-carbon monoxide) low density; sodium carboxymethylcellulose; succinonitrile; lithium nickel manganese cobalt oxide; lithium nickel cobalt oxide; vinylidene fluoride homopolymer; methyl propionate; N-methyl-2-pyrrolidone; chromium; ethylbenzene; cobalt lithium manganese nickelate; ferric oxide; ethyl acetate; cobalt (II) oxide; manganese dioxide; nickel oxide; biphenyl; cobalt oxide (tetroxide); magnesite; N-lithiotrifluoromethanesulfonimide itaconic acid/ 1,3-butadiene/ styrene copolymer; adiponitrile; lithium iron phosphate)			
China - IECSC	No (lithium nickel oxide; nickel(II) sulfide; imide resin; succinonitrile; lithium aluminate; lithium nickel manganese cobalt oxide; fluoroethylene carbonate; cobalt(III) oxide monohydrate)			
Europe - EINEC / ELINCS / NLP	No (lithium nickel oxide; lithium manganate; polyethylene; dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol; polypropylene; imide resin; styrene/ butadiene copolymer; poly(ethylene-co-vinyl acetate-co-carbon monoxide) low density; sodium carboxymethylcellulose; lithium nickel manganese cobalt oxide; vinylidene fluoride homopolymer; itaconic acid/ 1,3-butadiene/ styrene copolymer)			
Japan - ENCS	No (carbon, activated; iron; copper; aluminium; lithium manganate; graphite; nickel; imide resin; silicon; lithium nickel manganese cobalt oxide; lithium nickel cobalt oxide; chromium; cobalt(III) oxide monohydrate)			
Korea - KECI	No (imide resin; lithium nickel manganese cobalt oxide; lithium nickel cobalt oxide; cobalt lithium manganese nickelate; itaconic acid/ 1,3-butadiene/ styrene copolymer)			
New Zealand - NZIoC	No (lithium fluorophosphate; ethyl methyl carbonate; nickel(II) sulfide; imide resin; lithium aluminate; lithium nickel manganese cobalt oxide fluoroethylene carbonate; cobalt lithium manganese nickelate; cobalt(III) oxide monohydrate; N-lithiotrifluoromethanesulfonimide; lithium ir phosphate)			
Philippines - PICCS	No (lithium nickel oxide; lithium cobaltate; lithium manganate; nickel(II) sulfide; imide resin; lithium aluminate; lithium nickel manganese cobalt oxide; lithium nickel cobalt oxide; fluoroethylene carbonate; cobalt lithium manganese nickelate; cobalt(III) oxide monohydrate; N-lithiotrifluoromethanesulfonimide; lithium iron phosphate)			
USA - TSCA	TSCA Inventory 'Active' substance(s) (lithium nickel oxide; carbon, activated; iron; copper; aluminium; lithium cobaltate; dimethyl carbonate; lithium manganate; polyethylene; ethylene carbonate; lithium fluorophosphate; graphite; ethyl methyl carbonate; nickel; dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol; polypropylene; nickel(II) sulfide; silicon; lithium carbonate; carbon black; styrene/ butadiene copolymer; poly(ethylene-co-vinyl acetate-co-carbon monoxide) low density; sodium carboxymethylcellulose; succinonitrile; lithium aluminate; vinylidene fluoride homopolymer; silicon monoxide; methyl propionate; fluoroethylene carbonate; boehmite; N-methyl-2-pyrrolidone; chromium; ethylbenzene; cobalt lithium manganese nickelate; ferric oxide; ethyl acetate; cobalt (II) oxide; manganese dioxide; nickel oxide; biphenyl; titanium dioxide; cobalt(III) oxide monohydrate; cobalt oxide (tetroxide); magnesite; N-lithiotrifluoromethanesulfonimide; itaconic acid/ 1,3-butadiene/ styrene copolymer; adiponitrile; lithium iron phosphate); No (imide resin; lithium nickel manganese cobalt oxide; lithium nickel cobalt oxide)			
Taiwan - TCSI	No (imide resin)			
Mexico - INSQ	No (lithium nickel oxide; lithium cobaltate; lithium manganate; ethylene carbonate; lithium fluorophosphate; ethyl methyl carbonate; dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol; imide resin; poly(ethylene-co-vinyl acetate-co-carbon monoxide) low density; lithium aluminate; lithium nickel manganese cobalt oxide; lithium nickel cobalt oxide; vinylidene fluoride homopolymer; silicon monoxide; fluoroethylene carbonate; cobalt lithium manganese nickelate; cobalt(III) oxide monohydrate; N-lithiotrifluoromethanesulfonimide; itaconic acid/ 1,3-butadiene/ styrene copolymer; lithium iron phosphate)			
Vietnam - NCI	No (imide resin; lithium aluminate; lithium nickel cobalt oxide)			
Russia - FBEPH	No (lithium nickel oxide; lithium cobaltate; lithium manganate; lithium fluorophosphate; dimethyl terephthalate/ cyclohexanedimethanol/ eth. glycol; nickel(II) sulfide; imide resin; poly(ethylene-co-vinyl acetate-co-carbon monoxide) low density; lithium aluminate; lithium nickel manganese cobalt oxide; lithium nickel cobalt oxide; silicon monoxide; cobalt lithium manganese nickelate; cobalt(III) oxide monohydrate; Nithiotrifluoromethanesulfonimide; itaconic acid/ 1,3-butadiene/ styrene copolymer; lithium iron phosphate)			
Legend:	Yes = All CAS declared ingredients are on the inventory			

Version No: 5.1

Lithium-ion Battery - Rechargeable (Brand AEG)

Issue Date: 28/10/2024 Print Date: 11/11/2024

National Inventory	Status	
	No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	28/10/2024
Initial Date	25/12/2021

SDS Version Summary

Version	Date of Update	Sections Updated
4.1	18/05/2022	Physical and chemical properties - Appearance, Identification of the substance / mixture and of the company / undertaking - Synonyms
5.1	28/10/2024	Physical and chemical properties - Appearance, Identification of the substance / mixture and of the company / undertaking - Synonyms

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

Definitions and abbreviations

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure LimitTEEL: Temporary Emergency Exposure Limit
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AllC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ► EINECS: European INventory of Existing Commercial chemical Substances
- ► ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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TEL (+61 3) 9572 4700.