

12V LFP 100AH SLIMLINE LITHIUM **BATTERY**

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PRODUCT IDENTIFICATION Section 1.

Product Name Century Yuasa 12V LFP 100AH Slimline Lithium Battery

Other Names Lithium-ion batteries (including lithium-ion polymer batteries)

Recommended Use of the Chemical and Restrictions on Use

Energy storage

Details of Manufacturer

or Importer

Distributed in Australia by: Century Yuasa Batteries 37-65 Cobalt Street Carole Park. QLD. 4300.

Century Yuasa Batteries 259 Church Street

Distributed in New Zealand by:

Onehunga. Auckland 1061

Emergency Telephone

Number

07 3361 6161

Poisons information Centre

Australia 131126

National Poisons information Centre New Zealand 0800

764 766

New Zealand 0800 764 766

Section 2. HAZARD(S) IDENTIFICATION

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

GHS Classification Acute Toxicity (Oral) Category 2, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 1B,

Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Germ Cell Mutagenicity Category 1A, Carcinogenicity Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 2, Hazardous to

the Aquatic Environment Long-Term Hazard Category 2

GHS Label Elements



Signal Word **DANGER**

IN THE EVENT OF INTERNAL CONTENTS EXPOSED

Toxic if swallowed. Hazard Statement(s) H301

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H340 May cause genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

IN THE EVENT OF INTERNAL CONTENTS EXPOSED

Precautionary P101 If medical advice is needed, have product container or label at hand

Statement(s) P102 Keep out of reach of children

Read carefully and follow all instructions P103 General

Precautionary P260 Do not breathe dust/fume.

Statement(s) Wash all exposed external body areas thoroughly after handling. P264

Do not eat, drink or smoke when using this product. Prevention P270

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P273 Avoid release to the environment

Contaminated work clothing should not be allowed out of the workplace. P272

Precautionary

Statement(s)

P301 + P330 + P331+P316

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get emergency medical

help immediately. Call Poison Centre

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Response

lenses, if present and easy to do. Continue rinsing. P308+P317 IF EXPOSED OR CONCERNED: Get medical help. P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P333+P313 IF SKIN IRRITATION OR RASH OCCURS: Get medical help. P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage. P405 Store locked up

Precautionary Statement(s) Storage

Statement(s)

Disposal

Precautionary P501

Dispose of contents/container to authorised hazardous or special waste collection

point in accordance with any local regulation

COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	Identification	Content % weight
Lithium Ion Phosphate (LiFePO4)	15365-14-7	16-20



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Iron (Fe)	7439-89-6	14.5-20
styrene/ butadiene/ acrylonitrile copolymer	9003-56-9	14-15
lithium fluorophosphate	21324-40-3	10-15
Copper (Cu)	7440-50-8	6.5-10
carbon black	1333-86-4	5-10
Graphite (C24X12)	7782-42-5	5-8
Aluminium (AI)	7429-90-5	3-5.5
tin	7440-31-5	2-5
polyethylene	9002-88-4	2
Ingredients determined not to be hazardous	N/A	5-10

Section 4. FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

The chemicals in this product are contained in a sealed package. Exposure to the contents will not occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused.

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.

Symptoms Caused by Exposure

Treat symptomatically.

Medical Attention and Special Treatment

No special instructions specified.

Section 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Equipment	Water	CO_2	Dry Chemical Powder	Foam	BCF/ Where regulations	Class D	Li-Ion Battery
	×	✓	✓	×	permit 🗸	×	✓

Specific Hazards
Arising from the
Chemical

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.

May emit acrid smoke. May emit corrosive and poisonous fumes.

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 Code

2Y



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Personal Precautions, Protective Equipment and Emergency Procedures In case of rupture, avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Ise personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Refer to protective measures listed in sections 7 and 8.

Environmental Precautions

Prevent product from contaminating soil and from entering sewers or waterways.

Methods and Materials 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. Bundle/collect recoverable product.
- Use dry clean up procedures and avoid generating dust.
- Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).
- · Water may be used to prevent dusting.
- Collect remaining material in containers with covers for disposal.
- Flush spill area with water.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling

- Do not connect the positive terminal to the negative terminal with electrical wire or chain. Avoid polarity
 reverse connection when installing 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.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Avoid physical damage to containers.

Other information

- Keep dry.
- Store under cover.
- Protect containers against physical damage.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Keep out of reach of children.
- Store out of direct sunlight
- Store away from incompatible materials.

Conditions for Safe Storage

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.

✓= May be stored together

①= May be stored together with specific preventions

















Section 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Control Measures - This product presents no health hazards to the user when used according to label directions for its intended purposes

Source	Ingredient	Material name	TWA	STEL	peak	Notes
Australia Exposure	copper	Copper, dusts & mists (as	1	Not	Not	Not Available
Standards		Cu)	mg/m3	Available	Available	
Australia Exposure Standards	copper	Copper (fume)	0.2 mg/m3	Not Available	Not Available	Not Available



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Australia Exposure Standards	carbon black	Carbon Black	3 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	Containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	aluminium	Aluminium (metal dust)	10 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, pyro powders (as Al)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	tin	Tin, metal	2 mg/m3	Not Available	Not Available	Not Available

Ingredient	TEEL-1	TEEL-2	TEEL-3
iron	3.2 mg/m3	35 mg/m3	150 mg/m3
lithium fluorophosphate	7.5 mg/m3	83 mg/m3	500 mg/m3
copper	3 mg/m3	33 mg/m3	200 mg/m3
carbon black	9 mg/m3	99 mg/m3	590 mg/m3
graphite	6 mg/m3	330 mg/m3	2,000 mg/m3
tin	6 mg/m3	67 mg/m3	400 mg/m3
polyethylene	16 mg/m3	170 mg/m3	1,000 mg/m3

Biological Monitoring

Not required

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.

Lower explosive limits

 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.

Personal Protection

Appearance

Odour



Respirator Type

- Not normally required with normal use.
- OTHERWISE: A-AUS P2



Eye Protection

- None under normal operating conditions.
- OTHERWISE: Safety glasses.

Clothing

- Not normally required with normal use.
- In case of battery leaking, protective clothing.



Glove Type

- None under normal operating conditions.
- OTHERWISE: Rubber Gloves.

Not Applicable



Not Available

Footwear

- None under normal operating conditions.
- OTHERWISE: rubber Gloves

Continuo	DUVELCAL AND CHEMICAL PROPERTIES
Section 9.	PHYSICAL AND CHEMICAL PROPERTIES

Lithium-ion battery, Insoluble in water.

Odour threshold Not Available Vapour pressure (kPa) Not Applicable рН Not Applicable Vapour density (Air = 1) Not Applicable Melting point/ freezing point Not Applicable Relative density (Water = 1) Not Applicable (°C) Initial boiling point and boiling Not Available Solubility in water (g,L) Immiscible range (°C) Partition coefficient: n-Flash point Not Available Not Applicable octanol/water **Evaporation rate** Not Applicable **Auto-ignition temperature** Not Applicable **Flammability** Decomposition temperature (°C) Not Available Not Applicable Upper explosive Not Applicable Viscosity Not Applicable limits



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Section 10.	STABILITY AND REACTIVITY		
Reactivity	Not available	Chemical stability •	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	None under normal process.	Conditions to avoid	Heating, mechanical abuse and electrical abuse.
Incompatible materials	 Avoid contamination of water, foodstuffs, feed or seed. 	Hazardous decomposition products	Carbon oxides

Section 11. TOXICOLOGICAL INFORMATION ACUTE EFFECTS

No adverse health effects expected if the product is handled in accordance with this safety data sheet and the product label.

Symptoms or effects that may arise if the product ruptures are:-

Inhaled

There is strong evidence to suggest that this material can cause, if inhaled once, very serious, irreversible damage of organs. Exposure to toxic levels of butadiene may cause dry nose, mouth and throat, also, fatigue, headache, falling sensation, nausea, respiratory paralysis, central nervous system depression, loss of consciousness and even death. Liver and kidney damage as well as genetic damage may occur. The inhalation of small particles of metal oxide results in sudden thirst, a sweet, metallic foul taste, throat irritation, cough, dry mucous membranes, tiredness and general unwellness. Headache, nausea and vomiting, fever or chills, restlessness, sweating, diarrhoea, excessive urination and prostration may also occur. Impurities found in carbons, including iodine, can be toxic. Carbon dusts in the air may cause irritation of the mucous membranes, eyes and skin. Copper poisoning following exposure to copper dusts and fume may result in headache, cold sweat and weak pulse. Capillary, kidney, liver and brain damage are the longer term manifestations of such poisoning. Inhalation of freshly formed metal oxide particles sized below 1.5 microns and generally between 0.02 to 0.05 microns may result in "metal fume fever". Symptoms may be delayed for up to 12 hours and begin with the sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalised feeling of malaise. Mild to severe headache, nausea, occasional vomiting, fever or chills, exaggerated mental activity, profuse sweating, diarrhoea, excessive urination and prostration may also occur. Tolerance to the fumes develops rapidly, but is quickly lost. All symptoms usually subside within 24-36 hours following removal from exposure.

Ingestion

The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. There is strong evidence to suggest that this material can cause, if swallowed once, very serious, irreversible damage of organs. Lithium, in large doses, can cause dizziness and weakness. If a low salt diet is in place, kidney damage can result. Acute toxic responses to aluminium are confined to the more soluble forms. Ingestion of finely divided carbon may produce gagging and constipation. Aspiration does not appear to be a concern as the material is generally regarded as inert and is often used as a food additive. A metallic taste, nausea, vomiting and burning feeling in the upper stomach region occur after ingestion of copper and its derivatives. The vomitus is usually green/blue and discolours contaminated skin. As absorption of phosphates from the bowel is poor, poisoning this way is less likely. Effects can include vomiting, tiredness, fever, diarrhoeblood pressure, slow pulse, cyanosis, spasms of the wrist, coma and severe body spasms.

Skin contact

Skin contact with the material may be harmful; systemic effects may result following absorption. The material can produce chemical burns following direct contact with the skin. There is strong evidence to suggest that this material, on a single contact with skin, can cause very serious, irreversible damage of organs. Though considered non-harmful, slight irritation may result from contact because of the abrasive nature of the aluminium oxide particles. Thus, it may cause itching and skin reaction and inflammation. The diepoxide of butadiene has been reported to cause mild effect of causing skin tumours in mice when applied topically on its skin. Irritation and skin reactions are possible with sensitive skin Open cuts abraded or irritated skin should not be exposed to this material Exposure to copper, by skin, has come from its use in pigments, ointments, ornaments, jewellery, dental amalgams and IUDs (intrauterine devices), and in killing fungi and algae. Although copper is used in the treatment of water in swimming pools and reservoirs, there are no reports of toxicity from these applications. Entry into the bloodstream through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue.

Eye

The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. If applied to the eyes, this material causes severe eye damage. Irritation of the eyes



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may produce a heavy secretion of tears (lachrymation). Direct eye contact with acid corrosives may produce pain, tears, sensitivity to light and burns. Mild burns of the epithelia generally recover rapidly and completely. Eyes exposed to carbon particulates may be liable to irritation and burning. These can remain in the eye causing inflammation lasting weeks and can cause permanent dark dotty discolouration. Copper salts, in contact with the eye, may produce inflammation of the conjunctiva, or even ulceration and cloudiness of the cornea.

Chronic effects

There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Acrylonitrile sensitises the skin and airway. Chronic exposures may produce severe liver inflammation. Animal testing shows long term exposure to aluminium oxides may cause lung disease and cancer, depending on the size of the particle. The smaller the size, the greater the tendencies of causing harm. Exposure to large doses of aluminium has been connected with the degenerative brain disease Alzheimer's Disease.

Prolonged or repeated inhalation of dust may cause in lung disease. Graphite workers have reported symptoms of headaches, coughing, depression, low appetite, difficult breathing and black sputum. Workers suffering from this have generally worked in the industry for long periods, (10 years or more), although some cases have been reported after as little as four years. Lithium compounds can affect the nervous system and muscle. This can cause tremor, inco-ordination, spastic jerks and very brisk reflexes. There is insufficient evidence to suggest that exposure to carbon black causes increased susceptibility to cancer or other ill effects. Some lung changes can occur after a prolonged period of exposure as well as increased strain on the right side of the heart. Occupational exposure to 1.3butadiene, enhanced or caused cancer at different body sites with significant associated mortality, in animal testing and on the basis of human data. The predominant tumours are lymphomas, cancers of the testes, stomach and intestines, breast, thyroid, pancreas, throat and womb. Sodium phosphate dibasic can cause stones in the kidney, loss of mineral from the bones and loss of thyroid gland function. Chronic excessive intake of iron have been associated with damage to the liver and pancreas. People with a genetic disposition to poor control over iron are at an increased risk.

Acute Toxicity	Skin Irritation / Corrosion	Serious Eye Damage / Irritation	Respiratory Or Skin Sensitisation	Mutagenicity	Carcinogenicity	Reproductivity	Stot - Single Exposure	Stot - Repeated Exposure	Aspiration Hazard
\checkmark	\checkmark	✓	\checkmark	\checkmark	\checkmark	×	×	×	×

✓ = Data required to make classification available
X= Data either not available or does not fill the criteria for classification

Section 12.	ECOLOGICAL INFORMATION		
Degradability	Ingredient polyethylene	Persistence: Water/Soil LOW	Persistence: Air LOW
Bio- accumulative Potential	Ingredient	Bioaccumulation	
· otomiai	polyethylene	LOW (LogKOW = 1.2658)	
Mobility in Soil	Ingredient polyethylene	Mobility LOW (KOC = 14.3)	

Section 13. DISPOSAL CONSIDERATIONS

Recycle wherever possible or consult manufacturer for recycling op Safe Handling & Disposal

Consult State Land Waste Management Authority for disposal.

Environmental Regulations Refer to section 15

Section 14. TRANSPORT INFORMATION

REGULATED FOR TRANSPORT OF DANGEROUS GOODS ADG, IATA and IMDG

Labels Required





Air Transport



Land and Sea Transport

Marine Pollutant Yes **Hazchem Code** 2Y

Land Transport

3480

UN Number



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Proper Shipping Name Lithium ion batteries (including lithium-ion polymer batteries)

Transport Hazard Class Class

Not Applicable Sub-risk

Packing Group Not Applicable

Environmental Hazards for

Transport Purposes

Environmentally hazardous

Special Precautions for

Special Provisions 188 230 310 348 376 377 384 387 390 Limited Quantity

Air Transport

UN Number 3480

Proper Shipping Name Lithium ion batteries (including lithium-ion polymer batteries)

Transport Hazard Class Class

Not Applicable Sub-risk

Packing Group Not Applicable

Environmental Hazards for

Transport Purposes

ERG Code **Special Provisions** Environmentally hazardous

A88 A99 A154 A164 A183 A201 A206 A213 A331 A334 A802

Cargo Only Packing Instructions See 965 Cargo Only Maximum Qty / Pack See 965 Passenger and Cargo Packing Forbidden

Instructions

Passenger and Cargo Maximum

Qty / Pack

Passenger and Cargo Limited

Quantity Packing Instructions

Passenger and Cargo Limited

Maximum Qty / Pack

Not Applicable

Marine Pollutant

Sea Transport

Packing Group

UN Number 3480

Proper Shipping Name Lithium ion batteries (including lithium-ion polymer batteries)

Transport Hazard Class Class

> Sub-risk Not Applicable

Environmental Hazards for

Transport Purposes

Special Precautions for

User

FMS Number F-A S-I

Special Provisions 188 230 310 348 376 377 384 387

Limited Quantities

Section 15. REGULATORY INFORMATION

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

Forbidden

Forbidden

Forbidden

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 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)

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



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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)

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

graphite is found on the following regulatory lists **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)

tin 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

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

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

(MNMS)

Section 16. ANY OTHER RELEVANT INFORMATION			
Revision Information	Revision Nº	Date	Description
	1	October 2022	Created
	ETQ 3	1/08/2024	Reviewed updated to GHS 10e

Section 16. A	NY OTHER RELEVANT INFORMATION (cont'd)		
Abbreviations			
PC-TWA:	Permissible Concentration-Time Weighted Average		
PC-STEL:	Permissible Concentration-Short Term Exposure Limit		
IARC:	International Agency for Research on Cancer		
STEL:	Short Term Exposure Limit		
TEEL:	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:	Bio-Concentration Factors		
BEI:	Biological Exposure Index		
AIIC:	Australian Inventory of Industrial Chemicals		
DSL:	Domestic Substances List		
NDSL:	Non-Domestic Substances List		
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		
NZIoC:	New Zealand Inventory of Chemicals		
TSCA:	Toxic Substances Control Act		
NCI:	National Chemical Inventory		
References			

IATA Lithium Battery Guidance Document (2021)

IMDG Code (incorporating amendment 39-18)

SafeWork Australia Workplace Exposure Standards for Airborne Contaminants (19 December 2019)

WorkSafe New Zealand Workplace exposure standards and biological exposure indices Ed 12-1 (November 2020)

ACGIH Threshold Limit Values https://www.osha.gov/annotated-pels/note (accessed May 2021)