Paslode - STOCKade Lithium Ion Battery Cell Paslode (Paslode Australia)

Chemwatch: 4776-72

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Issue Date: 01/11/2019 Print Date: 19/07/2021 Initial Date: 18/01/2012 L.GHS.AUS.EN

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

Product Identifier

Product name	Paslode - STOCKade Lithium Ion Battery Cell	
Chemical Name	Not Applicable	
Synonyms	Part numbers B20543A, ST4IBAT	
Proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

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

Relevant identified uses Battery. NOTE: Chemical materials are stored in sealed case. The toxic properties of the electrode materials are hazardous only if the materials are released by damaging the cell or if exposed to fire. The sealed battery is not hazardous in normal use. The chemical hazards are related to the leaked battery contents. If Transport Code Special Provision 188 applies the batteries will be unregulated for transport. SDS are intended for use in the workplace. For domestic-use products, refer to consumer labels.

Details of the supplier of the safety data sheet

Registered company name	Paslode (Paslode Australia)	
Address	47-55 Williamson Road Ingleburn 2565 NSW Australia	
Telephone	+61 2 9829 4000	
Fax	Not Available	
Website	www.paslode.com.au	
Email	cust.sales.au@paslodeanz.com	

Emergency telephone number

Association / Organisation	Poisons Information Centre (AU)	
Emergency telephone numbers	13 11 26	
Other emergency telephone numbers	Not Available	

SECTION 2 Hazards identification

Classification of the substance or mixture

Poisons Schedule	Not Applicable
Classification ^[1]	Not Applicable

Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

 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

Continued...

Paslode - STOCKade Lithium Ion Battery Cell

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
		sealed metal case containing
		lithium transition metal oxidate as
12190-79-3	NotSpec	lithium cobaltate
12057-17-9	NotSpec	lithium manganate
182442-95-1	NotSpec	cobalt lithium manganese nickelate
7439-89-6	NotSpec	iron
7429-90-5	NotSpec	aluminium
7782-42-5	NotSpec	graphite, natural
7440-44-0	NotSpec	carbon, non-activated
7440-50-8	NotSpec	copper
	NotSpec	electrolyte, organic
		NOTE: Not every product includes all of these ingredients

SECTION 4 First aid measures

Description of first aid measures

General	
Eye Contact	 Generally not applicable. If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs 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. Remove patient to fresh air and seek medical attention.
Ingestion	 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

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

Advice for firefighters

Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	If heated above 125 deg C, cell(s) can explode/vent. Internal organic material will burn if the cell is incinerated. 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. Decomposes on heating and produces toxic fumes of: carbon monoxide (CO)

carbon dioxide (CO2) hydrogen fluoride

SECTION 6 Accidental release measures

Personal precautions, protecti Minor Spills	ve equipment and emergency procedures 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.
	Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	Avoid short circuiting the cell. Avoid mechanical damage of the cell. Do not open or disassemble. 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. 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. Terminate charging when the charging process does not end within specified time. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Avoid physical damage to containers.
Other information	 Store at room temperature - approx. 20 deg C. Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. 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, including any incompatibilities

Suitable container	Store in original containers.
Storage incompatibility	Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	lithium manganate	Manganese, dust & compounds (as Mn)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	cobalt lithium manganese nickelate	Manganese, dust & compounds (as Mn)	1 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 (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	graphite, natural	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	copper	Copper (fume)	0.2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	copper	Copper, dusts & mists (as Cu)	1 mg/m3	Not Available	Not Available	Not Available

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Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2		TEEL-3
iron	Not Available	3.2 mg/m3	35 mg/m3		150 mg/m3
graphite, natural	Not Available	6 mg/m3	330 mg/m	3	2,000 mg/m3
carbon, non-activated	Not Available	6 mg/m3	330 mg/m	3	2,000 mg/m3
copper	Not Available	3 mg/m3	33 mg/m3		200 mg/m3
Ingredient	Original IDLH			Revised IDLH	
lithium cobaltate	Not Available	Not Available		Not Available	
lithium manganate	500 mg/m3	500 mg/m3		Not Available	
cobalt lithium manganese nickelate	500 mg/m3 / 10 mg/m3		Not Available		
iron	Not Available	Not Available		Not Available	
aluminium	Not Available	Not Available		Not Available	
graphite, natural	1,250 mg/m3	1,250 mg/m3		Not Available	
carbon, non-activated	Not Available	Not Available		Not Available	
copper	100 mg/m3		Not Available		

MATERIAL DATA

None assigned. Refer to individual constituents.

Exposure controls

Appropriate engineering controls	General exhaust is adequate under normal operating conditions.
Personal protection	
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
Thermal hazards	Not Available

Respiratory protection

Not Available

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Metallic or black coloured ; cylindrical/ prismatic/ prismatic (laminated) solid with no odour; insoluble in water.		
Physical state	Manufactured	Relative density (Water = 1)	Not Applicable
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Applicable	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 (%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	May form hydrofluoric acid if electrolyte comes into contact with water. Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

-			
Inhaled	Vapors or fumes may cause respiratory tract irritation. Not normally a hazard due to physical form of product.		
Ingestion	Not normally a hazard due to physical form of product. Accidental ingestion of the material may be damaging to the health of the individual.		
Skin Contact	The electrolyte may cause skin irritation. Not normally a hazard due to physical form of product.		
Eye	The electrolyte may cause 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 and ex	posure does not occur during normal handling and use.	
Paslode - STOCKade Lithium	ΤΟΧΙΟΙΤΥ	IRRITATION	
Ion Battery Cell	Oral (Rat) LD50: >2000 mg/kg		
Paslode - STOCKade Lithium	тохісіту	IRRITATION	
Ion Battery Cell	Oral (Rat) LD50: >2000 mg/kg		
Paslode - STOCKade Lithium	ΤΟΧΙΟΙΤΥ	IRRITATION	
Ion Battery Cell	Oral (Rat) LD50: >2000 mg/kg		
Paslode - STOCKade Lithium	тохісіту	IRRITATION	
Ion Battery Cell	Oral (Rat) LD50: >2000 mg/kg		
Paslode - STOCKade Lithium	тохісіту	IRRITATION	
Ion Battery Cell	Oral (Rat) LD50: >2000 mg/kg		
Paslode - STOCKade Lithium	тохісіту	IRRITATION	
Ion Battery Cell	Oral (Rat) LD50: >2000 mg/kg		
Paslode - STOCKade Lithium Ion Battery Cell	тохісіту	IRRITATION	
	Oral (Rat) LD50: >2000 mg/kg		

 Ion Battery Cell
 Oral (Rat) LD50: >2000 mg/kg

 Paslode - STOCKade Lithium Ion Battery Cell
 TOXICITY Oral (Rat) LD50: >2000 mg/kg

 Ion Battery Cell
 Oral (Rat) LD50: >2000 mg/kg

 Paslode - STOCKade Lithium Ion Battery Cell
 TOXICITY

 Oral (Rat) LD50: >2000 mg/kg

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

IRRITATION

IRRITATION

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. They may be genetically determined or acquired, for example, during infections or exposure to irritant substances. Immunologically the low molecular weight substances become complete allergens in the organism either by binding to peptides or proteins (haptens) or after metabolism (prohaptens). Paslode - STOCKade Lithium Particular attention is drawn to so-called atopic diathesis which is characterised by an increased susceptibility to allergic rhinitis, allergic Ion Battery Cell 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. 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.

Mutagenicity	×	Aspiration Hazard	×
sensitisation	X	STOT - Repeated Exposure	X
Respiratory or Skin			
Skin Irritation/Corrosion Serious Eye Damage/Irritation	×	Reproductivity STOT - Single Exposure	×
Acute Toxicity		Carcinogenicity	×
Acute Toxicity	clinical point of view, substances are noteworth	ny if they produce an allergic test reaction i	
Paslode - STOCKade Lithium Ion Battery Cell	eczema involves a cell-mediated (T lymphocytu involve antibody-mediated immune reactions. T the distribution of the substance and the oppor	as contact eczema, more rarely as urticaria es) immune reaction of the delayed type. C The significance of the contact allergen is r tunities for contact with it are equally impor	o this product. a or Quincke's oedema. The pathogenesis of contact Other allergic skin reactions, e.g. contact urticaria, not simply determined by its sensitisation potential: tant. A weakly sensitising substance which is widely with which few individuals come into contact. From a
Paslode - STOCKade Lithium Ion Battery Cell	No significant acute toxicological data identified	d in literature search.	
Paslode - STOCKade Lithium Ion Battery Cell	male rats and 5 groups of 5 female rats received values of copper monochloride were 2,000 mg/ died at both 1500 and 2000 mg/kg bw, and one formation of scar and reddish changes were ob noted. In addition, a reddish or black urine was sensitive than male based on mortality and clin No reliable skin/eye irritation studies were avai cause skin irritation. Repeat dose toxicity: In repeated dose toxicit (gavage) to Sprague-Dawley rats for 30 days to bw/day. The NOAEL value was 5 and 1.3 mg/k treatment-related death was observed in femal 80 mg/kg bw/day. The frequency of squamous female rats at all treatment groups, and was st mg/kg bw/day doses. The observed effects are (gavage) administration of copper monochlorid Genotoxicity: An in vitro genotoxicity study wi Salmonella typhimurium strains (TA 98, TA 100 in vitro test for chromosome aberration in Chin numerical aberrations at the concentration of significant increases of structural aberrations wo observed at 70 ug/mL. In an in vivo mammaliar monochloride exhibited similar PCE/(PCE+NCI Therefore copper monochlorid is not an in vivi Carcinogenicity: there was insufficient inform. Reproductive and developmental toxicity: In th screening test (OECD TG 422), copper monoc	al toxicity results available. In an acute derr ad doses of 1000, 1500 and 2000 mg/kg by /kg bw or greater for male (no deaths obse a at 1,000 mg/kg bw. Symptom of the hard observed on application sites in all treated a sobserved in females at 2,000, 1,500 and 1 itical signs. lable. The acute dermal study with copper ty study performed according to OECD TG o males and for 39 - 51 days to females at g bw/day for male and female rats, respec le rats in the high dose group. Erythropoiet cell hyperplasia of the forestomach was in atistically significant in males at doses of = e considered to be local, non-systemic effect le. th copper monochloride showed negative i 0, TA 1535, and TA 1537) with and without ese hamster lung (CHL) cells showed that 10, 70 and 100 ug/mL without S9 mix. In the vere observed at 50 and 70 ug/mL and sign n erythrocyte micronucleus assay, all anim E) ratios and MNPCE frequencies compare o mutagen. ation to evaluate the carcinogenic activity of horide was given orally (gavage) to Sprag 0, 20, and 80 mg/kg bw/day. The NOAEL of the was 20 mg/kg bw/day. Three of 120 pu	nimals. Skin inflammation and injury were also 1,000 mg/kg bw. Female rats appeared to be more monochloride suggests that it has a potential to 422, copper monochloride was given orally concentrations of 0, 1.3, 5.0, 20, and 80 mg/kg tively. No deaths were observed in male rats. One ic toxicity (anaemia) was seen in both sexes at the creased in a dose-dependent manner in male and 20 mg/kg bw/day and in females at doses of =5 ct on the forestomach which result from oral results in a bacterial reverse mutation test with S9 mix at concentrations of up to 1,000 ug/plate. An copper monochloride induced structural and e presence of the metabolic activation system, ifficant increases of numerical aberrations were als dosed (15 - 60 mg/kg bw) with copper ed to those of the negative control animals. of copper monochloride.
Paslode - STOCKade Lithium Ion Battery Cell	Substance has been investigated as a reprodu WARNING: Inhalation of high concentrations o Symptoms are tiredness, influenza like respirat	f copper fume may cause "metal fume feve	er", an acute industrial disease of short duration.
Paslode - STOCKade Lithium Ion Battery Cell	condition known as reactive airways dysfunction compound. Key criteria for the diagnosis of RA abrupt onset of persistent asthma-like symptom pattern, on spirometry, with the presence of mo- minimal lymphocytic inflammation, without eosi following an irritating inhalation is an infrequent substance. Industrial bronchitis, on the other has	on syndrome (RADS) which can occur follo DS include the absence of preceding resp ns within minutes to hours of a documente oderate to severe bronchial hyperreactivity inophilia, have also been included in the cr t disorder with rates related to the concent and, is a disorder that occurs as result of e	iratory disease, in a non-atopic individual, with d exposure to the irritant. A reversible airflow on methacholine challenge testing and the lack of iteria for diagnosis of RADS. RADS (or asthma) ration of and duration of exposure to the irritating
	 thyroxine and triiodothyronine secretion by feedback), which then stimulates the glanc Lithium which inhibits thyroid hormone rele Certain foods, such as soy and millet (cont cabbage, horseradish). Caffeine (in coffee, tea, cola, chocolate) which are a solution of the secret secre	r the gland, at low doses, this causes an ind d. ease. taining vitexins) and vegetables in the genu	

Toxicity

Not Available

Ingredient	Endpoint	Test Duration (hr)	Effect	Value	Species	BCF
Paslode - STOCKade Lithium Ion Battery Cell	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Paslode - STOCKade Lithium Ion Battery Cell	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Paslode - STOCKade Lithium Ion Battery Cell	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Paslode - STOCKade Lithium Ion Battery Cell	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Paslode - STOCKade Lithium Ion Battery Cell	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Paslode - STOCKade Lithium Ion Battery Cell	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Paslode - STOCKade Lithium Ion Battery Cell	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Paslode - STOCKade Lithium Ion Battery Cell	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Paslode - STOCKade Lithium Ion Battery Cell	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients
Bioaccumulative potential		

Ingredient	Mobility
	No Data available for all ingredients

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. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill. 	

SECTION 14 Transport information

Special precautions for user

Labels Required		
Marine Pollutant	NO Not Applicable	
HAZCHEM	2Y	
Land transport (Not Applicable)		
UN number	3480	
Packing group	Not Applicable	
UN proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)	
Environmental hazard	No relevant data	
Transport hazard class(es)	Class 9 Subrisk Not Applicable	

188 230 310 348 376 377 384 387 390

Special provisions

0

Limited quantity

Air transport (ICAO-IATA / DGR)

UN number	3480		
Packing group	Not Applicable		
UN proper shipping name	Lithium ion batteries (including lithium ion polymer batteries)		
Environmental hazard	No relevant data		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk	9 Not Applicable	
	ERG Code	12FZ	
Special precautions for user		Qty / Pack Packing Instructions	A88 A99 A154 A164 A183 A201 A206 A213 A331 A334 A802 See 965 Forbidden Forbidden Forbidden

Sea transport (IMDG-Code / GGVSee)

UN number	3480		
Packing group	Not Applicable		
UN proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)		
Environmental hazard	Not Applicable		
Transport hazard class(es)	IMDG Class 9 IMDG Subrisk Not Applicable		
Special precautions for user	EMS NumberF-A , S-ISpecial provisions188 230 310 348 376 377 384 387Limited Quantities0		

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

Source	Ingredient	Pollution Category
Not Available	Paslode - STOCKade Lithium Ion Battery Cell	Not Available

SECTION 15 Regulatory information

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

lithium cobaltate(12190-79-3) 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

lithium manganate(12057-17-9) is found on the following regulatory lists

Not Applicable

cobalt lithium manganese nickelate(182442-95-1) 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 Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

iron(7439-89-6) 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 Australia Inventory of Industrial Chemicals (AIIC)

aluminium(7429-90-5) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

 graphite, natural(7782-42-5) is found on the following regulatory lists

 Australian Inventory of Industrial Chemicals (AIIC)

 carbon, non-activated(7440-44-0) is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

copper(7440-50-8) 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 Australian Inventory of Industrial Chemicals (AIIC)

National Inventory	Status	
Australia - AIIC		
Canada - DSL	No (lithium manganate; cobalt lithium manganese nickelate)	
Canada - NDSL	No (lithium cobaltate; lithium manganate; cobalt lithium manganese nickelate; iron; aluminium; graphite, natural; carbon, non-activated; copper)	
China - IECSC	No (lithium manganate)	
Europe - EINEC / ELINCS / NLP	No (lithium manganate; cobalt lithium manganese nickelate)	
Japan - ENCS	No (lithium manganate; cobalt lithium manganese nickelate; iron; aluminium; graphite, natural; carbon, non-activated; copper)	
Korea - KECI	No (cobalt lithium manganese nickelate)	
New Zealand - NZIoC	No (cobalt lithium manganese nickelate)	
Philippines - PICCS	No (lithium cobaltate; lithium manganate; cobalt lithium manganese nickelate)	
USA - TSCA	Yes	
Legend:	Y = All ingredients are on the inventory	

SECTION 16 Other information

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. Scale of use, frequency of use and current or available engineering controls must be considered.

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