

# HumidityNormal 35%rh, 50%rh, 80%rh #720-8992, 720-8895, 720-8999

### **RS Components Pty Ltd**

Chemwatch Hazard Alert Code: 2

Chemwatch: **36-1262** Version No: **4.1.1.1**  Issue Date: **14/02/2017** Print Date: **15/02/2017** L.GHS.AUS.EN

Safety Data Sheet according to WHS and ADG requirements

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### Product Identifier

Product name	HumidityNormal 35%rh, 50%rh, 80%rh #720-8992, 720-8895, 720-8999	
Synonyms	ueous solution of LiCl and distilled H2O, Calibration Solution	
Other means of identification	Not Available	

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

Relevant identified uses Suitable only for the calibration of humidity meters.

### Details of the supplier of the safety data sheet

Registered company name	RS Components Pty Ltd
Address	25 Pavesi Street NSW 2164 Australia
Telephone	1300 656 636
Fax	1300 656 696
Website	Not Available
Email	Not Available

#### Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	1800 039 008
Other emergency telephone numbers	03 95733112

### **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

### HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

# CHEMWATCH HAZARD RATINGS

	IVIIN	IVIAX
Flammability	0	
Toxicity	2	0 = Minimum
Body Contact	2	1 = Low 2 = Moderate
Reactivity	0	3 = High
Chronic	0	4 = Extreme

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

### Label elements

GHS label elements



Chemwatch: **36-1262** Page **2** of **9** 

Version No: **4.1.1.1** 

# HumidityNormal 35%rh, 50%rh, 80%rh #720-8992, 720-8895, 720-8999

Issue Date: **14/02/2017** Print Date: **15/02/2017** 

SIGNAL WORD	WARNING
Hazard statement(s)	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary statement(s)	Prevention
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement(s)	) Response
P362	Take off contaminated clothing and wash before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Precautionary statement(s)	Storage
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
Precautionary statement(s)	) Disposal

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Dispose of contents/container in accordance with local regulations.

### Substances

See section below for composition of Mixtures

P501

### Mixtures

CAS No	%[weight]	Name
		HumidityNormal 35%rh contains:
7447-41-8	50	lithium chloride
7732-18-5	50	water
		HumidityNormal 50%rh contains:
7447-41-8	25-50	lithium chloride
7732-18-5	50-75	<u>water</u>
		HumidityNormal 80%rh contains:
7447-41-8	10-20	lithium chloride
7732-18-5	80-90	water

# **SECTION 4 FIRST AID MEASURES**

## Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with 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.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If furnes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> </ul>

Chemwatch: 36-1262 Page 3 of 9 Issue Date: 14/02/2017 Version No: 4.1.1.1

#### HumidityNormal 35%rh, 50%rh, 80%rh #720-8992, 720-8895, 720-8999

Print Date: 15/02/2017

- In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
- Fig the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
- ▶ If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

▶ INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Clinical effects of lithium intoxication appear to relate to duration of exposure as well as to level.

- Lithium produces a generalised slowing of the electroencephalogram; the anion gap may increase in severe cases.
- ▶ Emesis (or lavage if the patient is obtunded or convulsing) is indicated for ingestions exceeding 40 mg (Li)/Kg.
- ▶ Overdose may delay absorption; decontamination measures may be more effective several hours after cathartics.
- ▶ Charcoal is not useful. No clinical data are available to guide the administration of catharsis
- Haemodialysis significantly increases lithium clearance; indications for haemodialysis include patients with serum levels above 4 meq/L.
- There are no antidotes.

[Ellenhorn and Barceloux: Medical Toxicology]

### **SECTION 5 FIREFIGHTING MEASURES**

#### Extinguishing media

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

#### Special hazards arising from the substrate or mixture

Special nazards arising from the substrate or mixture		
Fire Incompatibility	None known.	
Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposition may produce toxic fumes of:         <ul> <li>hydrogen chloride</li> <li>metal oxides</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul> </li> </ul>	
HAZCHEM	Not Applicable	

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>
Major Spills	Moderate hazard.  ► Clear area of personnel and move upwind.  ► Alert Fire Brigade and tell them location and nature of hazard.  ► Wear breathing apparatus plus protective gloves.

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

## **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

Safe handling

- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- Avoid all personal contact, including inhalation.

Issue Date: **14/02/2017**Print Date: **15/02/2017** 

- Wear protective clothing when risk of exposure occurs
   Use in a well-ventilated area.
   Prevent concentration in hollows and sumps.
  - Other information
- Store in original containers.
   Keep containers securely sealed.
  - Store in a cool, dry, well-ventilated area.
  - ▶ Store away from incompatible materials and foodstuff containers.

### Conditions for safe storage, including any incompatibilities

#### Suitable container

- ▶ Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- ▶ Check all containers are clearly labelled and free from leaks
- Storage incompatibility
- ▶ Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
- Avoid reaction with oxidising agents

#### |Avoid storage with bromine trifluoride.

#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **Control parameters**

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
lithium chloride	Lithium chloride	1 mg/m3	11 mg/m3	47 mg/m3
lithium chloride	Lithium chloride	1 mg/m3	11 mg/m3	47 mg/m3
lithium chloride	Lithium chloride	1 mg/m3	11 mg/m3	47 mg/m3

Ingredient	Original IDLH	Revised IDLH
lithium chloride	Not Available	Not Available
water	Not Available	Not Available
lithium chloride	Not Available	Not Available
water	Not Available	Not Available
lithium chloride	Not Available	Not Available
water	Not Available	Not Available

### MATERIAL DATA

### **Exposure controls**

# Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

### Personal protection









# Eye and face protection

- ▶ Safety glasses with side shields
- Chemical goggles
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

### Skin protection

### See Hand protection below

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

# Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care.

### Body protection

# See Other protection below

#### Other protection

- Overalls.
- P.V.C. apron.Barrier cream.

### Thermal hazards

Not Available

### Recommended material(s)

# GLOVE SELECTION INDEX

### Respiratory protection

Issue Date: **14/02/2017** Print Date: **15/02/2017** 

#### "Forsberg Clothing Performance Index".

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

HumidityNormal 35%rh. 50%rh. 80%rh #720-8992, 720-8895, 720-8999

Material	СРІ
BUTYL	С
NATURAL RUBBER	С
NEOPRENE	С
PVA	С
VITON	С

<sup>\*</sup> CPI - Chemwatch Performance Index

**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.

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.

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

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance	Clear, colourless liquid with no odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.15-1.29
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	4-5	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	110-130	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

### **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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

Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

Not normally a hazard due to non-volatile nature of product

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

Chemwatch: **36-1262**Version No: **4.1.1.1** 

HumidityNormal 35%rh, 50%rh, 80%rh #720-8992, 720-8895, 720-8999

Issue Date: **14/02/2017**Print Date: **15/02/2017** 

Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.		
Skin Contact	The material produces severe skin irritation; evidence exists, or practical experience predicts, that the material either:  • produces severe inflammation of the skin in a substantial number of individuals following direct contact, and/or  • produces significant and severe inflammation when applied to the healthy intact skin of animals (for up to four hours), such inflammation being present twenty-four hours or more after the end of the exposure period.  • Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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.		
Еуе	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by a temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.		
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.  Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.  Neuromuscular effects result from chronic over-exposure to lithium compounds. These may include tremor, ataxia, clonus and hyperactive reflexes. Some animal studies have shown that exposure during pregnancy may produce birth defects. Other studies with rats, rabbits and monkeys have not shown teratogenic effects.		
HumidityNormal 35%rh,	TOVICITY	IDDITATION	
50%rh, 80%rh #720-8992,	TOXICITY  Not Available	IRRITATION  Not Available	
720-8895, 720-8999	Not Available	Not Available	
	TOXICITY	IRRITATION	
lithium chloride	dermal (rat) LD50: 1488 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg/24h	
	Oral (rat) LD50: 526 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg/24h	
	TOXICITY	IRRITATION	
water	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available	
	TOXICITY	IRRITATION	
lithium ahlarida	dermal (rat) LD50: 1488 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg/24h	
lithium chloride	Oral (rat) LD50: 526 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg/24h	
	Oral (rat) LD50: 526 mg/kg· -	Skir (rabbit). 300 mg/24m	
	TOXICITY	IRRITATION	
water	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available	
	TOXICITY	IRRITATION	
lithium chloride	dermal (rat) LD50: 1488 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg/24h	
	Oral (rat) LD50: 526 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg/24h	
water	TOXICITY	IRRITATION	
	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available	
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. extracted from RTECS - Register of Toxic Effect of chemical Substances	* Value obtained from manufacturer's SDS. Unless otherwise specified data	
LITHIUM CHLORIDE	Asthma-like symptoms may continue for months or even years after exposure to reactive airways dysfunction syndrome (RADS) which can occur following exported of RADS include the absence of preceding respiratory disease, in a non-atopic into hours of a documented exposure to the irritant. A reversible airflow pattern, or on methacholine challenge testing and the lack of minimal lymphocytic inflammator of RADS.	sure to high levels of highly irritating compound. Key criteria for the diagnosis ndividual, with abrupt onset of persistent asthma-like symptoms within minutes a spirometry, with the presence of moderate to severe bronchial hyperreactivity	
LITHIUM CHLORIDE	The material may produce moderate eye irritation leading to inflammation. Repe	eated or prolonged exposure to irritants may produce conjunctivitis.	
LITHIUM CHLORIDE	The material may produce severe skin irritation after prolonged or repeated exp dermatitis is often characterised by skin redness (erythema) thickening of the ep Histologically there may be intercellular oedema of the spongy layer (spongiosi given the severity of response, but repeated exposures may produce severe ulce	oidermis. is) and intracellular oedema of the epidermis. Prolonged contact is unlikely,	
LITHIUM CHLORIDE	Exposure to the material for prolonged periods may cause physical defects in the	e developing embryo (teratogenesis).	
LITHIUM CHLORIDE	Neoplastic by RTECS criteria.		
LITHIUM CHLORIDE	Ptosis, altered sleep times, tremor, muscle weakness, antipyschotic		
LITHIUM CHLORIDE	behaviour, nausea, vomiting, androgenicity, changes in spermatogenesis,		
LITHIUM CHLORIDE	Hodgkins lymphoma, abortion, foetal death, specific development		
LITHIUM CHLORIDE	abnormalities recorded.		
WATER	No significant acute toxicological data identified in literature search.		

Version No: **4.1.1.1** HumidityNormal 35%rh, 50%rh, 80%rh #720-8992, 720-8895, 720-8999

Issue Date: **14/02/2017** Print Date: **15/02/2017** 

Legend: X - Data available but does not fill the criteria for classification

✓ – Data available to make classification
 ○ – Data Not Available to make classification

0

0

0

0

Carcinogenicity

Reproductivity

**Aspiration Hazard** 

STOT - Single Exposure

STOT - Repeated Exposure

### **SECTION 12 ECOLOGICAL INFORMATION**

0

0

Acute Toxicity

Serious Eye

sensitisation

Mutagenicity

Damage/Irritation
Respiratory or Skin

Skin Irritation/Corrosion

### Toxicity

50 50 50 50 EC 50 50	96 48 96 624 624 96 48	Fish Crustacea Algae or other aquatic plants Fish Fish Crustacea Algae or other aquatic plants	17mg/L 249mg/L 3165.223mg/L 1mg/L 0.2mg/L 17mg/L 249mg/L 3165.223mg/L	4 2 3 4 4 4 2 3
550 550 EEC 550 550	96 624 624 96 48	Algae or other aquatic plants Fish Fish Crustacea	3165.223mg/L 1mg/L 0.2mg/L 17mg/L 249mg/L	3 4 4 4 2
EC 50 50 50 50	624 624 96 48	Fish Fish Crustacea	1mg/L 0.2mg/L 17mg/L 249mg/L	4 4 4 2
EC 50 50	624 96 48	Fish Fish Crustacea	0.2mg/L 17mg/L 249mg/L	4 4 2
50 50 50	96 48	Fish Crustacea	17mg/L 249mg/L	4 2
50	48	Crustacea	249mg/L	2
50	-		-	_
	96	Algae or other aquatic plants	3165.223mg/L	3
		i ·		
50	624	Fish	1mg/L	4
EC	624	Fish	0.2mg/L	4
50	96	Fish	17mg/L	4
50	48	Crustacea	249mg/L	2
50	96	Algae or other aquatic plants	3165.223mg/L	3
50	624	Fish	1mg/L	4
EC	624	Fish	0.2mg/L	4
50 50 50 50 Fe	C Cacted from 1. IUCLID tit Coxicity Data (Es	96 0 48 0 96 0 624 C 624 coted from 1. IUCLID Toxicity Data 2. Europe ECHA Replace Toxicity Data (Estimated) 4. US EPA, Ecotox databa	96 Fish Crustacea Algae or other aquatic plants C 624 Fish C 624 Fish Crustacea Algae or other aquatic plants C 624 Fish C 624 Fish C 624 Fish Cotted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Informatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquati	96 Fish 17mg/L 0 48 Crustacea 249mg/L 0 96 Algae or other aquatic plants 3165.223mg/L 0 624 Fish 1mg/L

**DO NOT** discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
lithium chloride	LOW	LOW
water	LOW	LOW
lithium chloride	LOW	LOW
water	LOW	LOW
lithium chloride	LOW	LOW
water	LOW	LOW

### Bioaccumulative potential

Ingredient	Bioaccumulation
lithium chloride	LOW (LogKOW = -0.4608)
water	LOW (LogKOW = -1.38)
lithium chloride	LOW (LogKOW = -0.4608)
water	LOW (LogKOW = -1.38)
lithium chloride	LOW (LogKOW = -0.4608)
water	LOW (LogKOW = -1.38)

### Mobility in soil

Ingredient	Mobility
lithium chloride	LOW (KOC = 14.3)
water	LOW (KOC = 14.3)
lithium chloride	LOW (KOC = 14.3)
water	LOW (KOC = 14.3)
lithium chloride	LOW (KOC = 14.3)
water	LOW (KOC = 14.3)

Version No: 4.1.1.1

Issue Date: 14/02/2017 Print Date: 15/02/2017 HumidityNormal 35%rh, 50%rh, 80%rh #720-8992, 720-8895, 720-8999

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

- Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- Fig container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- DO NOT allow wash water from cleaning or process equipment to enter drains

#### Product / Packaging disposal

- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers.

#### **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

Not Applicable

## **SECTION 15 REGULATORY INFORMATION**

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

LITHIUM CHLORIDE(7447-41-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

LITHIUM CHLORIDE(7447-41-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

LITHIUM CHLORIDE(7447-41-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (water; lithium chloride)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (water)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

Chemwatch: 36-1262 Page 9 of 9 Issue Date: 14/02/2017 Version No: 4.1.1.1 Print Date: 15/02/2017

HumidityNormal 35%rh, 50%rh, 80%rh #720-8992, 720-8895, 720-8999

**SECTION 16 OTHER INFORMATION** 

### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
lithium chloride	7447-41-8, 85144-11-2, 16712-20-2
lithium chloride	7447-41-8, 85144-11-2, 16712-20-2
lithium chloride	7447-41-8, 85144-11-2, 16712-20-2

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.

#### **Definitions and abbreviations**

PC – TWA: Permissible Concentration-Time Weighted Average

 ${\sf PC-STEL} : {\sf Permissible Concentration-Short Term Exposure Limit}$ 

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

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

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