

SDS DATE 17/05/2017

SECTION 01 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: Conductivity Standard Solution
Product type: Conductivity Standard Solution
Synonyms: N/A
Product codes: 022
Product Number: 0004
Manufacturer: SJ Enterprises Pty Ltd
Division: Australia
Address: 7 O'Conner Court, Gepps Cross, South Australia, 5094 Australia
Emergency phone: +61 8 8359 8732
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Chemical name: N/A
Chemical family: N/A
Chemical formula: N/A
Product use: For Calibrating of Conductivity (EC) and TDS Meters
Prepared by: SJ ENTERPRISES PTY LTD Material Safety Data Sheet

SECTION 02 - HAZARDS IDENTIFICATION

Emergency overview: N/A

Potential Health Effects:

Eyes: Low hazard for normal industrial handling.

Skin: Low hazard for normal industrial handling.

Ingestion: Low hazard for normal industrial handling.

Inhalation: Low hazard for normal industrial handling.

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS NO.</u>	<u>Chemical Name:</u>	<u>% by Weight</u>
7447-40-7	Potassium Chloride	0-10
7732-18-5	Water	Balance

Toxicological Data on Ingredients: Potassium chloride: ORAL (LD50): Acute: 2500 mg/kg [Guinea pig]. 2600 mg/kg [Rat]. 1500 mg/kg [Mouse]. Sodium chloride: ORAL (LD50): Acute: 3000 mg/kg

[Rat.]. 4000 mg/kg [Mouse]. DERMAL (LD50): Acute: >10000 mg/kg [Rabbit]. DUST (LC50): Acute: >42000 mg/m³ 1 hours [Rat].

SECTION 04 - FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

INGESTION: If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.

INHALATION: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically and supportively.

SECTION 05 - FIRE FIGHTING MEASURES

GENERAL INFORMATION: As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

EXTINGUISHING MEDIA: Substance is non-combustible; use agent most appropriate to extinguish surrounding fire.

SPECIAL REMARKS: May result in explosion with potassium permanganate and sulfuric acid. (Potassium chloride) Electrolysis of sodium chloride in presence of nitrogenous compounds to produce chlorine may lead to formation of explosive nitrogen trichloride. Potentially explosive reaction with dichloromaleic anhydride + urea. (Sodium Chloride)

SECTION 06 - ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

SPILL/LEAKS: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 07 - HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

The shelf life of Cyco liquid products will depend on storing them correctly, stored in a cool, dark location the unopened product has a shelf life of approx. 2 years, once the seal is broken the product has a shelf life of approx. 3 months. Always replace the cap as soon as possible after pouring to extend the life of the product. Do not store for long periods above 40°C or below - 10°C

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

EXPOSURE LIMITS:

Not available

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue

Odour: Odourless

Physical state: liquid

pH: Neutral

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: The lowest known value is 100°C (212°F) (Water).

Freezing/Melting Point: Not available

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature: Not available

Solubility in water: Easily soluble in cold water, hot water.

Specific Gravity/Density: Weighted average: 1.03 (Water = 1)

Molecular Formula:

Molecular Weight:

SECTION 10 - STABILITY AND REACTIVITY

Stability: stable

Conditions to avoid (stability): n/a

Incompatibility (material to avoid): Slightly reactive to reactive with oxidizing agents, acids.

Hazardous decomposition or by-products: Irritating and toxic gases.

Hazardous polymerization: Has not been reported.

Conditions to avoid (polymerization): n/a

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Hygroscopic. Incompatible with KMnO_4 , H_2SO_4 , BrF_3 , and BrCl_3 . May react violently with BrF_3 . (Potassium chloride) Hygroscopic. Reacts with most nonnoble metals such as iron or steel, building materials (such as cement) Sodium chloride is rapidly attacked by bromine trifluoride. Violent reaction with lithium. (Sodium Chloride

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Routes of Entry: Absorbed through skin. Eye contact.

Toxicity to Animals: Acute oral toxicity (LD50): 30000 mg/kg (Mouse) (Calculated value for the mixture with Potassium Chloride).

Chronic Effects on Humans: Contains material which may cause damage to the following organs: blood, cardiovascular system. (Potassium Chloride) **MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. **DEVELOPMENTAL TOXICITY:** Classified Reproductive system/toxin/female [POSSIBLE].

Other Toxic Effects on Humans:

Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Passes through the placental barrier in animal. (Potassium chloride) May cause adverse reproductive effects (fetotoxicity, abortion, maternal effects) by intraplacental route. May affect genetic material (mutagenic) (Sodium Chloride)

Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: May cause skin irritation Eye: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling Ingestion: May affect behavior (coma, change in motor activity), metabolism, blood (change in clotting factor, electrolytic imbalance), cardiovascular, respiratory and gastrointestinal (irritation of GI tract, nausea, vomiting) systems. (Potassium chloride) Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Causes eye irritation. Ingestion: Ingestion of large quantities can irritate the stomach (as in overuse of salt tablets) with nausea and vomiting. May affect behavior (muscle spasticity/contraction, somnolence), sense organs, metabolism, and cardiovascular system. Continued exposure may produce dehydration, internal organ congestion, and coma. Inhalation: Material is irritating to mucous membranes and upper respiratory tract. (Sodium Chloride)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14 - TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable

SECTION 15 - REGULATORY INFORMATION

Federal and State Regulations:

TSCA 8(b) inventory: Potassium chloride or Sodium Chloride; Water

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: a National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment: Not applicable. Lab coat. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

SECTION 16 - OTHER INFORMATION

References: Not available.

Other Special Considerations: Not available.



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