

**MATERIAL SAFETY DATA SHEET**

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**SECTION 1-Product Identification**

**Product Name: Reference Fill Solution**

**Synonyms:**

**Part Number: 9210356**

**SECTION 2-Composition/Information on Ingredients**

Ingredient(s)	CAS #	Percent	Hazardous
Water	7732-18-5	73.1	no
Potassium Chloride	7447-40-7	26.0	no
Silver Chloride	7783-90-6	0.2	no
Non-hazardous proprietary ingredient		0.7	no

**SECTION 3-Hazards Identification**

Health Rating: 0  
Flammability Rating: 0  
Reactivity Rating: 0

Lab Protective Equip: gloves, safety goggles

**SECTION 4-First Aid Measures**

INHALATION: No known effects, remove to fresh air if necessary.  
INGESTION: Dilute with water. Seek medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.  
SKIN CONTACT: Wash with soap and water for 15 minutes.  
EYE CONTACT: Flush with water for at least 15 minutes.

**SECTION 5-Fire Fighting Measures**

**Fire: Non-flammable**  
**Explosion: N/A**  
**Fire Extinguishing Media: Fight Surrounding Fire**  
**Special Information: N/A**

**SECTION 6-Accidental Release Measures**

Rinse area with water; mop. Dispose in accordance with federal, state and local regulations.

**SECTION 7-Handling and Storage**

Keep in a tightly closed container, stored in a cool, dry, ventilated area.

**SECTION 8-Exposure Controls/Personal Protection**

**Airborne Exposure Limits:** N/E

**Ventilation System:** Normal room ventilation is generally adequate.

**Personal Respirators (NIOSH Approved):** None required.

**Skin Protection:** Gloves, lab coat.

**Eye Protection:** Use safety glasses or goggles.

**SECTION 9-Physical and Chemical Properties**

**Appearance:** Clear, colorless liquid sloution

**Odor:** Odorless

**Solubility:** Miscible in water

**Specific Gravity:** 1.00

**pH:** approximately 7

**Boiling Point:** Approximately 102°C

**Melting Point:** -7.5°C

**Vapor Density (Air=1):** N/A

**Vapor Pressure (mm Hg):** N/E

**Evaporation Rate (BuAc=1):** N/E

**SECTION 10-Stability and Reactivity**

**Stability:** Stable

**Hazardous Decomposition Products:** Emits toxic fumes of chlorine and potassium oxide when heated to decomposition.

**Hazardous Polymerization:** Will not occur

**Incompatibilities:** Iron, cement, BrF3, sulfuric acid and potassium permanganate.

**Conditions to Avoid:** Heat, incompatibles.

**SECTION 11-Toxicological Information:**

**Potassium chloride:** Oral rat LD50: 2600 mg/kg. Irritation eye rabbit (std Draize): 500 mg/24H mild. Oral human

LDlo: 20 mg/kg. Investigated as a mutagen.

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
<b>Potassium Chloride</b> (7447-40-7)	No	No	None

**SECTION 12-Ecological Information**

**Environmental Fate:** N/A

**Environmental Toxicity:** N/A

**SECTION 13-Disposal Considerations**

Material must be stored and disposed of in accordance with all local, state and federal laws.

**SECTION 14-Transport Information**

Not regulated

**SECTION 15-Regulatory Information**

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
<b>Potassium Chloride</b> (7447-40-7)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient	Korea	DSL	NDSL	Phil.	Canada
<b>Potassium Chloride</b> (7447-40-7)	Yes	Yes	No	Yes	

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	-SARA 302-	TPQ	List	SARA 313	Chemical Catg.
<b>Potassium Chloride</b> (7447-40-7)	No	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

Ingredient	CERCLA	-RCRA-	-TSCA-
<b>Potassium Chloride</b> (7447-40-7)	No	261.33	8 (d)

Chemical Weapons Convention: No      TSCA 12(b): No      CDTA: No  
 SARA 311/312: Acute: Yes      Chronic: No      Fire: No      Pressure: No  
 Reactivity: No      (Pure / Liquid)

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

**WHMIS:**

This **MSDS** has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the **MSDS** contains all of the information required by the CPR.

**SECTION 16-Other Information**

N/A

**NFPA Ratings:**      Health:0      Flammability:0      Reactivity:0

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