

Material Safety Data Sheet

Section I – Product Identification

Product Name: Type B Electrolyte
Common Name: Potassium Carbonate, 20%
Manufacturer: Teledyne Instruments/Analytical Instruments
Address: 16830 Chestnut Street, City of Industry, CA 91748
Phone: (626) 961-9221
Technical Support: (626) 934-1673
Environment, Health and Safety: (626) 934-1592
Date Prepared: 2/16/2000
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Section II – Hazardous Ingredients/Composition

Material or Component	C.A.S. #	% by Weight	OSHA PEL	ACGIH
Water	7732-18-5	80		
Potassium carbonate (K ₂ CO ₃)	584-08-7	20	Not established	Not established

Section III – Health Hazard Data

Routes of Entry:

- Inhalation:** May cause irritation of the respiratory tract.
- Ingestion:** Irritant. May cause irritation to mouth and GI tract.
- Skin:** Slight to mild irritation on contact.
- Eyes:** Splash may cause severe irritation to eyes.

Acute Effects: The product may irritate eyes, skin and nose on contact.

Chronic Effects: Prolonged or repeated exposure with skin may result in chronic dermatitis.

Signs and Symptoms of Exposure: Mist may cause coughing or sneezing. Ingestion can cause irritation to the mouth and GI tract. Contact of the product with skin or eyes can cause slight to mild irritation.

Carcinogenicity: NA

OSHA: NA

NTP: NA

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Section IV – Emergency First Aid Procedures

In case of contact with the skin or eyes, immediately flush with plenty of water for at least 15 minutes and remove all contaminated clothing. Get medical attention immediately for eye contact. If skin irritation persists, seek medical attention.

If ingested, give large amounts of water. Consult a physician.

Section V – Fire and Explosion Hazard Data

Flash Point: NA **Flammable Limits:** NA **LEL:** NA **UEL:** NA

Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions. No specific agents recommended.

Special Fire Fighting Equipment: Wear NIOSH/OSHA approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: NA

Section VI – Cleanup Procedures

Wipe down the area several times with a wet paper towel. Use a fresh towel each time.

Section VII – Precautions for Safe Handling and Storage

Keep container tightly closed and dry. Store in an appropriate container and protect from physical damage. Store away from acids. Avoid contact with skin and eyes. Do not ingest. Do not breathe mist.

Section VIII – Exposure Controls/Personal Protection

Eye Protection: Chemical splash goggles

Hand Protection: Rubber gloves

Other Protective Clothing: Apron, face shield

Ventilation: No special ventilation requirements

Section IX – Physical/Chemical Characteristics

Material or Component	Boiling Point (°C)	Specific Gravity	Vapor Pressure	Melting Point (°C)	pH	Evap. Rate	Solubility in Water	Odor/Appearance Physical State
Potassium carbonate solution	100	1.41	NA	NA	NA	NA	Complete	Clear, colorless solution. No odor

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Section X – Stability and Reactivity

Stability:	Stable
Incompatibilities:	Reacts with acids.
Hazardous Decomposition Products:	NA
Hazardous Polymerization:	Will not occur.

Section XI – Toxicological Information

Toxicity to Animals:	Oral toxicity (LD50): 1870 mg/kg (Rat) (Value for solid potassium carbonate.)
Chronic Effects on Humans:	Prolonged or repeated exposure with skin may result in chronic dermatitis.
Other Toxic Effects on Humans:	Irritant (See Section III – Health Hazard Data)

Section XII – Ecological Information

Ecotoxicity:	NA
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Section XIII – Disposal Considerations

Waste must be disposed of in accordance with Federal, State and Local environmental control regulations.

Section XIV – Transport Information

DOT Identification:	Not regulated.
Small Quantity Shipments:	DOT: Not regulated. IATA: Not regulated.

Section XV – Regulatory Information

US Federal Regulations

- 1) OSHA – Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
- 2) SARA TITLE III
 - Sec 302 (40 CFR Part 355)

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Chemical Name	CAS #	%	TPQ lbs	RQ
None	NA	NA	NA	NA

- Sec 311 & 312

Chemical Name	Acute Health Haz	Chronic Health Haz	Fire Hazard	Sudden Release of Pressure Haz	Reactive
Potassium hydroxide solution	Yes	No	No	No	No

- Sec 313 (40 CFR Part 372): This product contains the following toxic chemicals subject to the reporting requirements of Section 313, of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Chemical Name	CAS #
None	NA

3) TSCA (Toxic Substances Control Act)

Components of this product are listed on the TSCA inventory.

4) CERCLA Section 102(A) (40 CFR Part 302) – Hazardous Substances and Reportable Quantities

Chemical Name	CAS #	RQ
None	NA	NA

State Regulations

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Chemical ingredient(s) requiring this warning:

NONE

Massachusetts: NA

Pennsylvania: NA

International Regulations

Canada: Canadian Environmental Protection Act (CEPA): Potassium carbonate, solid, is on the Domestic Substances List (DSL).

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Chemical Inventory Status:

Potassium carbonate, solid (584-08-7)

EC: Yes

Japan: Yes

Australia: Yes

Korea: Yes

Section XVI – Other Information

All chemicals may pose unknown hazards and should be used with caution. While the information contained in this Material Safety Data Sheet is believed to be correct and is offered for your information, consideration and investigation, Teledyne Analytical Instruments assumes no responsibility for the completeness or accuracy of the information contained herein.