

# Material Safety Data Sheet

## Section I – Product Identification

**Product Name:** Type C Electrolyte  
**Common Name:** Potassium Bicarbonate, 20% w/v  
**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:** 3/18/02  
**Revision Date:**

## Section II – Hazardous Ingredients/Composition

Material or Component	C.A.S. #	% by Weight	OSHA PEL	ACGIH
Water	7732-18-5	80 (approx.)		
Potassium bicarbonate (KHCO <sub>3</sub> )	298-14-6	20 (approx.)	Not established	Not established

## Section III – Health Hazard Data

**Routes of Entry:**

**Inhalation:** Liquid inhalation is unlikely. Mild alkaline irritant to respiratory system if inhaled as a mist. Coughing, sneezing, possible breathing difficulty in acute cases.

**Ingestion:** No adverse effects expected.

**Skin:** No adverse effects expected.

**Eyes:** Mild irritant, possible reddening due to alkaline effect.

**Acute Effects:** See inhalation above.

**Chronic Effects:** No adverse effects expected.

**Signs and Symptoms of Exposure:** No adverse effects expected.

**Carcinogenicity:** NA

**OSHA:** NA

**NTP:** NA

# Material Safety Data Sheet

## Section IV – Emergency First Aid Procedures

In case of eye contact flush with plenty of water for at least 15 minutes. Consult a physician if irritation develops. If breathed in as a mist, remove to fresh air. Seek medical attention for any breathing difficulty.

## 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 appropriate for the surrounding fire.

**Unusual Fire and Explosion Hazards:** Not considered to be a fire or explosion hazard.

## 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. Avoid contact with eyes. 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)	Density	Evap. Rate	Solubility in Water	Odor/Appearance Physical State
Potassium bicarbonate (solid)	NA	2.17	NA	100 - 120	NA	NA	36 g in 100 g water	White crystals. No odor.

# Material Safety Data Sheet

---

## Section X – Stability and Reactivity

<b>Stability:</b>	Stable
<b>Incompatibilities:</b>	No incompatibility data found.
<b>Hazardous Decomposition:</b>	May produce oxides of carbon and the contained metal.
<b>Hazardous Polymerization:</b>	Will not occur.

## Section XI – Toxicological Information

<b>Toxicity to Animals:</b>	No LD50/LC50 information found relating to normal routes of occupational exposure.
<b>Chronic Effects on Humans:</b>	See above.
<b>Other Toxic Effects on Humans:</b>	Irritant (See Section III – health Hazard Data)

## Section XII – Ecological Information

<b>Ecotoxicity:</b>	No information found.
---------------------	-----------------------

## Section XIII – Disposal Considerations

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

<b>EPA Waste Number:</b>	None
--------------------------	------

Follow all Federal, State and Local regulations.

## Section XIV – Transport Information

<b>DOT Identification:</b>	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)

# Material Safety Data Sheet

---

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
None	NA	NA	NA	NA	NA

- 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:                        Yes (solid)

### International Regulations

Canada:                               Canadian Environmental Protection Act (CEPA): Potassium bicarbonate, solid, is on the Domestic Substances List (DSL) and is acceptable for use under the provisions of CEPA.

# Material Safety Data Sheet

---

Chemical Inventory Status:

Potassium bicarbonate, solid (298-14-6)

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.