



BIOPHARM INC.

SAFETY DATA SHEET

1. Identification:

Product Identifier:	Conductivity Standards			
Product code:	BC4092	BC4095	BC8218	BC8220
	BC4094	BC8211	BC8219	BC8212
	BC8208	BC8217	BC8210	
Synonym(s):	Potassium Chloride Aqueous Solution			
Recommended use:	Manufacture of other chemical products, professional, scientific, and technical activities.			
Recommended restrictions:	None known.			
Chemical family:	Inorganic salt solution			
Formula:	KCl; H ₂ O			

Covers the following conductivity values and other values between 5 and 200,000 µS/cm:

(Any values listed as uMho/cm are equivalent to that value listed as uS/cm.)

5 µS/cm	100 µS/cm	720 µS/cm	5000 µS/cm	50,000 µS/cm
10 µS/cm	200 µS/cm	1000 µS/cm	6680 µS/cm	58,650 µS/cm
45 µS/cm	250 µS/cm	2000 µS/cm	10,000 µS/cm	90,000 µS/cm
50 µS/cm	300 µS/cm	2500 µS/cm	20,000 µS/cm	100,000 µS/cm
75 µS/cm	500 µS/cm	3000 µS/cm	30,000 µS/cm	175,000 µS/cm
	700 µS/cm	4000 µS/cm	40,000 µS/cm	200,000 µS/cm

Manufacturer/Supplier/Distributor Information

Company name:	Biopharm Inc.
Address:	187 South Tilley Road Hatfield, AR 71945
Telephone:	(870) 389-6114
Website:	www.bphchem.com
E-mail:	support@bphchem.com
Emergency phone number:	Chemtrec 800-424-9300

2. Hazard(s) identification:

Classification:	This product is not categorized as hazardous in any GHS hazard class.
Label elements:	None required.
Signal word:	None required.
Hazard statement:	None required.
Precautionary statement:	
Prevention	No data available.
Response	No data available.
Storage	Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight.
Disposal	Flush to sewer in compliance with current local, state, and federal regulations.
Hazard(s) not otherwise classified (HNOC):	Not classified.

Supplemental information: No data available.

3. Composition/information on ingredients

Mixtures

<u>Chemical Name</u>	<u>CAS number</u>	<u>%</u>
Potassium Chloride	7447-40-7	Varies with specific value
Water	7732-18-5	Balance

4. First-aid measures

Inhalation: Remove to fresh air, if necessary.

Ingestion: Drink water as a precaution. Get medical attention if symptoms occur.

Skin contact: Wash with warm water and soap.

Eye contact: Irrigate with cool running water. If irritation develops, obtain medical care.

Most important symptoms/effects, acute and delayed: No data available.

General information: Persons with pre-disposition to sensitivity or impaired kidney function may be more susceptible to substance effects.

5. Fire-fighting measures

Suitable extinguishing media: Any media necessary for extinguishing the surrounding fire.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: Not applicable.

Special protective equipment and precautions for firefighters: Wear approved self-contained protective clothing.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures: Keep unnecessary personnel away.

Methods and materials for containment and cleaning up: Wash spill area with soap and water. Flush to sewer in compliance with current local, state, and federal regulations.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

Precautions for safe handling:	In case of insufficient ventilation, wear suitable respiratory equipment. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Do not get this material on clothing. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight.

8. Exposure controls/personal protection

Exposure Guidelines:	No exposure limits noted for ingredient(s).
Engineering measures:	General ventilation normally adequate. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protective equipment:	
Eye/face protection:	Wear protective eyeglasses or chemical safety goggles.
Skin and body protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance:	Clear, colorless liquid.
Odor:	Odorless.
Odor threshold:	No data available.
Vapor Pressure (mm Hg):	*
Vapor density (Air = 1):	*
pH:	6 – 8
Relative density:	No data available.
Melting point/freezing point:	< 32°F
Solubility in Water:	Infinite
Boiling Point (°F):	*
Flash point:	Non-flammable.
Evaporative Rate (H₂O = 1):	*
Flammability (solid, gas):	Non-flammable.
Upper/lower flammability or explosive limits	
Flammability limit - lower	Not applicable.
Flammability limit - upper	Not applicable.
Explosive limit - lower	Not applicable.
Explosive limit - upper	Not applicable.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available
Viscosity:	No data available

Other information:Specific Gravity (H₂O = 1): *

Percent Volatile by Volume: *

*Varies with specific value. See **chemical Handbook**.**10. Stability and reactivity**

Reactivity:	No data available.
Chemical stability:	Stable under ordinary conditions of use and storage.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	None under normal conditions.
Incompatible materials:	Bromine trifluoride, Potassium permanganate plus sulfuric acid.
Hazardous decomposition products:	Thermal decomposition or burning of <u>Potassium Chloride POWDER</u> will produce hydrogen chloride.

11. Toxicological information**Information on likely routes of exposure:**

Ingestion:	None indicated.
Inhalation:	None indicated.
Skin Contact:	None indicated. May cause irritation to skin on contact.
Eye Contact:	None indicated. May cause irritation to eyes on contact.

Information on toxicological effects

Acute toxicity	Low hazard for usual industrial handling.		
<u>Component</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
Potassium chloride	2600 mg/kg (rat)	No data available	No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause irritation to skin on contact.
Serious eye damage/irritation	May cause irritation to eyes on contact.
Respiratory Sensitization	No data available.
Skin sensitization	No data available.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, NTP, or OSHA.
Mutagenic effects	No data available.
Reproductive effects	No data available.
STOT – single exposure	No data available.
STOT – repeated exposure	No data available.
Aspiration hazard	No data available.

Chronic effects No data available.

12. Ecological information

Ecotoxicity: No data available.
Persistence and degradability: No data available.
Bioaccumulation/ Accumulation: No data available.
Mobility in soil: No data available
Other adverse effects: No data available

13. Disposal considerations

Waste disposal methods: To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.

14. Transport information

DOT: Not regulated as a hazardous material by DOT.

15. Regulatory information

U.S. Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated
CERCLA Hazardous Substances List (40 CFR 302.4)	Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories Immediate Hazard – No
 Delayed Hazard – No
 Fire Hazard – No
 Pressure Hazard – No
 Reactivity Hazard – No

Other Federal regulations

Clean Air Act Not applicable.
Clean Water Act Not regulated.
California Prop 65 This product does not contain any Proposition 65 chemicals.

16. Other information, including date of preparation or last revision

Revision date January 3, 2023

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