

SAFETY DATA SHEET

1. Identification:

Product Identifier:	Potassium Dichromate Solution
Product code:	BP4370 = 0.100 N
Synonym(s):	No information found.
Recommended use:	Manufacture of other chemical products, professional, scientific, and technical activities.
Recommended restrictions:	None known.

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:	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	
	Carcinogenicity	Category 1 A
Label elements:		
Signal word:	Danger	
Hazard statement:	Harmful if inhaled. May cause allergy or asthma symptoms May cause allergic skin reaction. May cause genetic defects. May cause cancer. May damage fertility. May damage the	
Precautionary statement:		
Prevention	Obtain special instruction before use. Do not handle until all safety precaution Use personal protective equipment as re Use only outdoors or in a well-ventilate Do not breathe dust/fume/gas/mist/vapo	equired. d area.
Response	If exposed or concerned: Get medical a	dvice/attention.
Storage	Store locked up. Store in a well-ventilated place. Keep c	ontainer tightly closed.
Disposal	Dispose of contents/container to an app	roved waste disposal plant.
Hazard(s) not otherwise classified (HNOC):	Harmful to aquatic life with long lasting WARNING! This product contains a ch cancer, birth defects or other reproducti	nemical known in the State of California to cause

Supplemental information:

None.

3. Composition/information on ingredients

Mixtures

Chemical Name	CAS number	<u>%</u>
Water	7732-18-5	99.5-99.75
Potassium Dichromate	7778-50-9	0.25-0.5

4. First-aid measures

Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. Immediately contact medical personnel.
Ingestion:	Do not induce vomiting. Call a physicial or Poison Control Center immediately.
Skin contact:	Wash off immediately with plent of water for at least 15 minutes. Obtain medical attention.
Eye contact:	Rinse immediately with plent of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Most important symptoms/effects, acute and delayed:	No information available.
General information:	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media:	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
Unsuitable extinguishing media:	No information available.
Specific hazards arising from the chemical	Non-combustible, substance itself does not burn, but may decompose upon heating to produce corrosive and/or toxic fumes.
Special protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressured-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Fire-fighting equipment/instructions	No information available.

6. Accidental release measures

Personal precautions,	Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate
protective equipment,	ventilation. Do no get in eyes, on skin, or on clothing.
and emergency	
procedures:	

Methods and materials	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.
for containment and	
cleaning up:	
Environmental	Avoid release to the environment. See Section 12 for additional ecological information.
precautions:	Do no flush surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system.

7. Handling and storage

Precautions for safe handling:	Use only under a chemical fume hood. Wear personnel protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not ingest.
Conditions for safe storage, including any incompatibilities:	Keep containers tighyle closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Exposure Guidelines:

<u>Component</u>	ACGIH TLV	OSHA PEL
Potassium Dichromate	e None established	None established
Engineering measures:	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.	
Personal protective equipment:		
Eye/face protection:	Wear appropriate protective eyeglasses or OHSA's eye and face protection regulation EN166.	chemical safety googles as described by as in 29 CFR 1910. 133 or European Standard
Skin and body protection:	Wear appropriate protective gloves and clo	othing to prevent skin exposure.
Respiratory protection:	Follow the OSHA respirator regulations fo Standard EN 149. Use a NIOSH/MSHA or respirator if exposure limits are exceeded of experienced.	European Standard EN 149 approved
Hygiene measures:	Handle in accordance with good industrial	hygiene and safety practice.

9. Physical and chemical properties

Appearance:	Liquid; Orange
Odor:	Orderless
Odor threshold:	No data available.
Vapor Pressure (mm Hg):	No data available.
Vapor density (Air = 1):	No data available.
pH:	No data available.
Relative density:	No data available.
Melting point/freezing point:	No data available.
Solubility in Water:	No data available.
Boiling Point (°F):	No data available.

Flash point:	No data available.
Evaporative Rate (H ₂ O = 1):	No data available.
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive	e limits
Flammability limit - lower	No data available.
Flammability limit - upper	No data available.
Explosive limit - lower	No data available.
Explosive limit - upper	No data available.
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 (H ₂ O = 1):	No data available.
Percent Volatile by Volume:	No data available.

10. Stability and reactivity

Reactivity:	None known, based on information available.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	None under normal processing.
Conditions to avoid:	Incompatible products. Excess heat.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Chromium oxide, potassium oxides.

11. Toxicological information

Information on likely routes of exposure:			
Ingestion:	May cause stomach irritati	ion.	
Inhalation:	May cause difficulty breat	hing.	
Skin Contact:	May cause irritation.		
Eye Contact:	May cause redness or irritation.		
Information on toxicological effects Acute toxicity			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	Not listed	Not listed

Potassium Dichromate	130 mg/kg (Rat)	1150 mg/kg (Rabbit)	0.09 mg/L/4h (Rat)
Delayed and immediate effe	ects as well as chronic effe	ets from short and long-term	exposure
Skin corrosion/ irritation	No information available.		
Serious eye damage/ irritation	May cause irritation to eye	es on contact.	
Respiratory Sensitization	May cause sensitization by	inhalation.	
Skin sensitization	May cause sensitization by	skin contact.	
Carcinogenicity	No data available.		
Mutagenic effects	Mutagenic effects have oc	curred in humans.	
Reproductive effects	May impair fertility.		
STOT – single exposure	No data available.		
STOT – repeated exposure	No data available.		
Aspiration hazard	No data available.		
Chronic effects	Prolonged inhalation may	be harmful. Prolonged exposur	e may cause chronic effects.

12. Ecological information

Ecotoxicity:

Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains the following substances which are hazardous for the environment. May cause long-tern adverse effects in the environment. Do not allow material to contaminate ground water systems.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium Dichromate	Not Listed	LC50: =26 mg/L, 96h static (Morone saxatilis) LC50: 23-41.2 mg/L, 96h static (Poecilia reticulate) LC50: 24.81-34.55 mg/L, 96h semi- static (Poecilia reticulata) LC50: 14-20.9 mg/L, 96h static (Pimephales promelas) LC50: 15.41 - 30.36 mg/L, 96h flow-through (Pimephales promelas) LC50: 21.209 - 30.046 mg/L, 96h semi- static (Oryzias latipes) LC50: = 12.3 mg/L, 96h semi-static (Oncorhynchus mykiss) LC50: 65.6 - 137.6 mg/L, 96h static (Lepomis macrochirus) LC50: = 320 mg/L, 96h (Lepomis macrochirus) LC50: > 139 mg/L, 96h static (Cyprinus carpio)	Not Listed	EC50: 1.4 mg/L 24h

Persistence and degradability:	Immiscible with water. May persist.
Bioaccumulation/ Accumulation:	No data available
Mobility in soil:	Is not likely mobile in the environemtn due to its low water solubility.
Other adverse effects:	

13. Disposal considerations

Waste disposal methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT: Not regulated as dangerous goods.

15. Regulatory information

California Prop 65

U.S. Federal regulations		
TSCA Section 12(b) E	Export Notification (40 CFR 707, Subpt. D)	Not regulated
U.S. OSHA Specifical	ly Regulated Substances (29 CFR 1910.1001-1050)	Not regulated
CERCLA Hazardous	Substances List (40 CFR 302.4)	Not listed
Superfund Amendments a	and Reauthorization Act of 1986 (SARA)	
Hazard Categories	Immediate Hazard – No	
	Delayed Hazard – Yes	
	Fire Hazard – No	
	Pressure Hazard – No	
	Reactivity Hazard – No	
Other Federal regulations	3	
Clean Air Act	Not applicable	
Clean Water Act	Not applicable	

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

Revision date	January 27, 2017
Disclaimer	The statements contained herein are offered as informational data only and are believed to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or handling of this product.

This product does not contain any Proposition 65 chemicals.