

**BIO BASIC INC.**  
20 KONRAD CRES, MARKHAM ONTARIO L3R 8T4 CANADA  
TEL: (905) 474 4493, (800) 313 7224 FAX: (905) 474 5794

MATERIAL SAFETY DATA SHEET  
REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

MANUFACTURER'S NAME: BIO BASIC INC.  
TEL: (905) 474 4493  
FAX: (905) 474 5794  
FOR CHEMICAL EMERGENCY: (416) 995 9730  
ADDRESS: 20 KONRAD CRES, MARKHAM ONTARIO L3R 8T4 CANADA

DATE UPDATED: JUNE 02, 2014

**SECTION 1. ----- CHEMICAL IDENTIFICATION -----**

**Product Name** pH Standard Kit  
**Product Code(s)** DB0415  
**Recommended Use** For Further Manufacturing Use Only  
Not for Human or Animal Drug Use

**SECTION 2. ----- HAZARDS IDENTIFICATION -----**

**GHS – Classification**

**Classification** Skin Irritant 2 Eye Irritant 2  
**Signal Word** Warning



**Hazard Statements** H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

**Precautionary Statements** P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF  
INHALED: Remove victim to fresh air and keep at rest in a position comfortable  
For breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water  
for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing

**SECTION 3. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -**

P2304

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
1,2-Benzenedicarboxylic acid, monopotassium salt	EEC No. 212-889-4	Not available	877-24-7	1-3	-

P2307

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Phosphoric acid	EEC No. 231-633-2	Not available	7664-38-2	10-15	C; R34
Potassium hydroxide	EEC No. 215-181-3	Not available	1310-58-3	1-10	Xn; R22 C; R35
SODIUM HYDROXIDE	EEC No. 215-185-5	Not available	1310-73-2	1-5	C; R35

P2310

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Non-Hazardous Ingredients	-	Not available	NONE	100	-

**SECTION 4. - - - - - FIRST-AID MEASURES - - - - -**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. If breathing becomes difficult, give oxygen.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water.
<b>Notes to Physician</b>	Treat symptomatically.

**SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -**

<b>Flammable Properties</b>	Not flammable.
<b>Flash Point</b>	Not determined
<b>Suitable Extinguishing Media</b>	Dry chemical, CO2, water spray or regular foam.
<b>Hazardous Combustion Products</b>	Carbon oxides.
<b><u>Explosion Data</u></b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive.
<b>Sensitivity to Static Discharge</b>	Not sensitive.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----**

**Personal Precautions**                      Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.

**Methods for Containment**                Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**                Cover with dry lime or soda ash. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

**SECTION 7. ----- HANDLING AND STORAGE-----**

**Handling**                                      Handle in accordance with good industrial hygiene and safety practice.

**Storage**                                        Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products**                  Strong Oxidizers.

**SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid 7664-38-2	3 mg/m <sup>3</sup> STEL TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
Potassium hydroxide 1310-58-3			Ceiling: 2 mg/m <sup>3</sup>

**Engineering Measures**                      Showers  
Eyewash stations  
Ventilation systems.

**Personal Protective Equipment**

**Eye/Face Protection**                      Tightly fitting safety goggles.

**Skin and Body Protection**                Wear protective gloves/clothing.

**Respiratory Protection**                    If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**                         Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----**

**Appearance**                                  No data available

**Odor**    No information available

**Odor Threshold**                              No information available

**Decomposition Temperature °C**          No information available

**Freezing Point**                                No information available

**Initial Boiling Point**                        No information available

**Physical State**                                Solution

**pH**     No data available

<b>Flash Point</b>	Not determined	
<b>Autoignition Temperature</b>	No data available	
<b>Boiling Point/Range</b>	No data available	
<b>Melting Point/Range</b>	No data available	
<b>Flammability Limits in Air</b>	<b>Upper</b> No data available	<b>Lower</b> No data available
<b>Explosive Properties</b>	No information available	
<b>Oxidizing Properties</b>	No information available	
<b>Evaporation Rate</b>	No data available	
<b>MMHG @ 37.8 C</b>	No data available	
<b>Vapor Density</b>	No data available	
<b>Specific Gravity</b>	No data available	
<b>Solubility</b>	No information available	
<b>Partition Coefficient (n-octanol/water)</b>	No data available	
<b>Viscosity</b>	No information available	

**SECTION 10. -----STABILITY AND REACTIVITY -----**

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	Strong Oxidizers.
<b>Conditions to Avoid</b>	None known based on information supplied.
<b>Hazardous Decomposition Products</b>	Carbon oxides.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**

**Acute Toxicity**

<b>Product Information</b>	Irritating to eye, skin and respiratory system. May be harmful if swallowed.
----------------------------	--

<b>Chemical Name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
1,2-Benzenedicarboxylic acid, monopotassium salt	3200 mg/kg ( Rat )		

<b>Chemical Name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>
Phosphoric acid	1530 mg/kg ( Rat )	2730 mg/kg ( Rabbit )
Potassium hydroxide	214 mg/kg ( Rat )	
SODIUM HYDROXIDE		1350 mg/kg ( Rabbit )

**Chronic Toxicity**

<b>Chronic Toxicity</b>	No known effect based on information supplied.
-------------------------	--

<b>Target Organ Effects</b>	None known.
-----------------------------	-------------

**SECTION 12. ----- ECOLOGICAL INFORMATION -----**

**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Phosphoric acid		LC50 3 - 3.5 mg/L Gambusia affinis 96 h		EC50 = 4.6 mg/L 12 h
Potassium hydroxide		LC50= 80 mg/L Gambusia affinis 96 h		

Chemical Name	Log Pow
Potassium hydroxide	= 0.65 = 0.83

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----**

**Waste Disposal Method** Dispose of material in accordance with all federal, state, and local regulations

**Contaminated Packaging** Dispose of in accordance with all federal, state and local regulations

**SECTION 14. ----- TRANSPORT INFORMATION -----**

**IATA** Not regulated

**DOT** Not regulated

**SECTION 15. ----- REGULATORY INFORMATION -----**

**REACH Title VII Restrictions** No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Phosphoric acid	>=>=1 % weight	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Potassium hydroxide	>=>=1 % weight	Not applicable	Not applicable	Not applicable	Not applicable	Deleterious
SODIUM HYDROXIDE	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

<b>Chemical Name</b>	<b>Dangerous Substances</b>	<b>Organic Solvents</b>	<b>Harmful Substances Whose Names Are to be Indicated on the Label</b>	<b>Pollution Release and Transfer Registry (Class II):</b>	<b>Pollution Release and Transfer Registry (Class I):</b>	<b>Poison and Deleterious Substances Control Law:</b>
1,2-Benzenedicarboxylic acid, monopotassium salt	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

<b>Chemical Name</b>	<b>Dangerous Substances</b>	<b>Organic Solvents</b>	<b>Harmful Substances Whose Names Are to be Indicated on the Label</b>	<b>Pollution Release and Transfer Registry (Class II):</b>	<b>Pollution Release and Transfer Registry (Class I):</b>	<b>Poison and Deleterious Substances Control Law:</b>
Non-Hazardous Ingredients	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

<b>Component</b>	<b>ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying</b>	<b>ISHA - Harmful Substances Requiring Permission</b>	<b>Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals</b>	<b>Toxic Release Inventory (TRI) - Group I</b>	<b>Toxic Release Inventory (TRI) - Group II</b>
Phosphoric acid 7664-38-2 ( 10-15 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Potassium hydroxide 1310-58-3 ( 1-10 )	Not applicable	Not applicable	97-1-137, 5 % or more in mixtures	Not applicable	Not applicable
SODIUM HYDROXIDE 1310-73-2 ( 1-5 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

<b>Component</b>	<b>ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying</b>	<b>ISHA - Harmful Substances Requiring Permission</b>	<b>Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals</b>	<b>Toxic Release Inventory (TRI) - Group I</b>	<b>Toxic Release Inventory (TRI) - Group II</b>
1,2-Benzenedicarboxylic acid, monopotassium salt 877-24-7 ( 1-3 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

<b>Component</b>	<b>ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying</b>	<b>ISHA - Harmful Substances Requiring Permission</b>	<b>Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals</b>	<b>Toxic Release Inventory (TRI) - Group I</b>	<b>Toxic Release Inventory (TRI) - Group II</b>
Non-Hazardous Ingredients NONE ( 100 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

## International Inventories

TSCA	Does not Comply
EINECS/ELINCS	Does not Comply
ENCS	Does not Comply
IECSC	Complies
KECL	Does not Comply
PICCS	Does not Comply
AICS	Complies

## U.S. Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid 7664-38-2 ( 10-15 )	5000 lb			x
Potassium hydroxide 1310-58-3 ( 1-10 )	1000 lb			x

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

### CERCLA

Component	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Phosphoric acid	5000 lb	
Potassium hydroxide	1000 lb	

## U.S. State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Phosphoric acid	X	X	X		X
Potassium hydroxide	X	X	X		X

## International Regulations

### Mexico – Grade

Chemical Name	Carcinogen Status	Exposure Limits
Phosphoric acid	A3	Mexico: TWA 1 mg/m <sup>3</sup>

### Canada

#### WHMIS Hazard Class

D2B Toxic materials



Chemical Name	NPRI
Phosphoric acid	X

## SECTION 16. ----- OTHER INFORMATION -----

**Issuing Date** 13-Aug-2009  
**Revision Date** 30-June-2014  
**Revision Note** No information available.  
**Recommended Restrictions** No information available

#### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**