

## Safety Data Sheet



### Section 1: Identification

#### Product identifier

**Product Name** • **Broad Bio**

**Relevant identified uses of the substance or mixture and uses advised against**

**Recommended use** • Improving soil microbiology

#### Details of the supplier of the safety data sheet

**Manufacturer** • Source to Source, a TAP Family Company  
3233 South "I" Street  
Tulare, CA 93274  
United States

**Telephone (General)** • 559-686-4425

**Telephone (General)** • 866-727-4572 - Toll Free

#### Emergency telephone number

**Manufacturer** • 1-800-424-9300 - CHEMTREC - U.S. Canada, Puerto Rico - 24 Hrs.

### Section 2: Hazard Identification

#### United States (US)

According to OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

**OSHA HCS 2012** • Not classified

#### Label elements

**OSHA HCS 2012**

**Hazard statements** • No label element(s) required

#### Other hazards

**OSHA HCS 2012** • This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Milk permeate solution	CAS:	33%	NDA	OSHA HCS 2012: Not Classified	NDA
Fish Hydrolysate	CAS:	6.37%	NDA	OSHA HCS 2012: Not Classified	NDA
Phosphoric acid (as a stabilizer)	CAS: 7664-38-2	0.002%	Ingestion/Oral-Rat LD50 • 273 mg/kg	OSHA HCS 2012: Acute Tox. 3 (orl); Eye Dam. 1; Skin Corr. 1B	NDA
Crab	CAS: 68844-77-9	1.80%	NDA	OSHA HCS 2012: Not Classified	NDA
Molasses	CAS:	4.39%	NDA	OSHA HCS 2012: Not Classified	NDA
Potassium Hydroxide	CAS:1310-58-3	0% TO 0.015%	Ingestion/Oral-Rat LD50 • 273 mg/kg	OSHA HCS 2012: Acute Tox. 3 (orl); Eye Dam. 1; Skin Corr. 1B	NDA

## Section 4: First-Aid Measures

### Description of first aid measures

- Inhalation** • Move victim to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if victim is not breathing.
- Skin** • If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.
- Eye** • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion** • If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention.

### Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### Indication of any immediate medical attention and special treatment needed

- Notes to Physician** • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5: Fire-Fighting Measures

## Extinguishing media

**Suitable Extinguishing Media** • In case of fire use media as appropriate for surrounding fire.

**Unsuitable Extinguishing Media** • No data available

## Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** • No data available

**Hazardous Combustion Products** • No data available

## Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** • Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.

**Emergency Procedures** • Keep unauthorized personnel away.

### Environmental precautions

- Do not contaminate any watercourse or other body of water by direct application, disposal, or cleaning of equipment.

### Methods and material for containment and cleaning up

**Containment/Clean-up Measures** • Stop leak if you can do it without risk.  
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.  
LARGE SPILLS: Dike far ahead of spill for later disposal.

## Section 7 - Handling and Storage

### Precautions for safe handling

**Handling** • Use good safety and industrial hygiene practices. Use only with adequate ventilation. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### Conditions for safe storage, including any incompatibilities

**Storage** • Keep container closed when not in use. Store in a cool, dry, well-ventilated place.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

Exposure Limits/Guidelines			
	Result	ACGIH	NIOSH
Potassium hydroxide (1310-58-3)	Ceilings	2 mg/m <sup>3</sup> Ceiling	2 mg/m <sup>3</sup> Ceiling
Phosphoric acid	TWAs	1 mg/m <sup>3</sup> TWA	1 mg/m <sup>3</sup> TWA

(7664-38-2)	STELs	3 mg/m3 STEL	3 mg/m3 STEL
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## Exposure controls

- Engineering Measures/Controls**
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Personal Protective Equipment

- Respiratory**
- Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

- Eye/Face**
- Wear safety goggles.

- Skin/Body**
- Wear appropriate gloves.

- Environmental Exposure Controls**
- Follow best practice for site management and disposal of waste.

### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Dark brown liquid with a sweet, earthy, fermented odor.
Color	Dark Brown	Odor	Sweet, earthy, fermented
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point	No data available
Decomposition Temperature	No data available	pH	4.0
Specific Gravity/Relative Density	1.033 Water=1	Water Solubility	No data available
Viscosity	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

## Section 10: Stability and Reactivity

### Reactivity

- No dangerous reaction known under conditions of normal use.

### Chemical stability

- Stable under normal temperatures and pressures.

## Possibility of hazardous reactions

- Hazardous polymerization will not occur.

## Conditions to avoid

- No data available

## Incompatible materials

- No data available

## Hazardous decomposition products

- No data available

## Section 11 - Toxicological Information

### Information on toxicological effects

Components		
Potassium hydroxide (0% TO 0.795%)	1310-58-3	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 273 mg/kg; <b>Irritation:</b> Eye-Rabbit • 1 mg 24 Hour(s)-Rinse • Moderate irritation; Skin-Human • 50 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 50 mg 24 Hour(s) • Severe irritation
Phosphoric acid (0.002%)	7664-38-2	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 1.25 g/kg; <i>Lungs, Thorax, or Respiration:</i> <b>Acute pulmonary edema; Liver:Changes in liver weight;</b> Inhalation-Rat LC50 • 25.5 mg/m <sup>3</sup> ; <i>Lungs, Thorax, or Respiration:</i> <b>Acute pulmonary edema; Liver:Changes in liver weight</b>

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012•No data available
Aspiration Hazard	OSHA HCS 2012•No data available
Carcinogenicity	OSHA HCS 2012•No data available
Germ Cell Mutagenicity	OSHA HCS 2012•No data available
Skin corrosion/Irritation	OSHA HCS 2012•No data available
Skin sensitization	OSHA HCS 2012•No data available
STOT-RE	OSHA HCS 2012•No data available
STOT-SE	OSHA HCS 2012•No data available
Toxicity for Reproduction	OSHA HCS 2012•No data available
Respiratory sensitization	OSHA HCS 2012•No data available
Serious eye damage/Irritation	OSHA HCS 2012•No data available

## Potential Health Effects

### Inhalation

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • No data available

### Skin

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • No data available

### Eye

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • No data available

### Ingestion

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • No data available

**Key to abbreviations**

LD = Lethal Dose

## Section 12 - Ecological Information

### Toxicity

- Material data lacking.

### Persistence and degradability

- Material data lacking.

### Bioaccumulative potential

- Material data lacking.

### Mobility in Soil

- Material data lacking.

### Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### Waste treatment methods

**Product waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA

**Special precautions for user**

- None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications**

- None

State Right To Know				
Component	CAS	MA	NJ	PA

Potassium hydroxide	1310-58-3	Yes	Yes	Yes
Phosphoric acid	7664-38-2	Yes	Yes	Yes

Inventory				
Component	CAS		TSCA	
Potassium hydroxide	1310-58-3	Yes		
Phosphoric acid	7664-38-2	Yes		

## Section 16 - Other Information

- Last Revision Date**      • 4/20/2015
- Preparation Date**        • 4/20/2015
- Disclaimer/Statement of Liability**
- Reasonable care has been taken in the preparation of this information, but the supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product.

**Key to abbreviations**

NDA = No Data Available