

# Bio Kelp Plus 0-3-2

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Bio Kelp Plus 0-3-2  
Product code : M77835

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

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

JR Simplot Company  
P.O. Box 70013  
Boise, ID 83707  
T 1-208-336-2110

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2B H320  
Sensitisation — Skin, category 1B H317

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H320 - Causes eye irritation  
Precautionary statements (GHS-US) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 - Wash hands, forearms and face thoroughly after handling  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 - If on skin: Wash with plenty of water/...  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P321 - Specific treatment (see supplemental first aid instruction on this label)  
P332+P313 - If skin irritation occurs: Get medical attention  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P363 - Wash contaminated clothing before reuse  
P501 - Dispose of contents/container to ...in accordance with local/regional/national regulations

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name                | Product identifier | % | GHS-US classification                            |
|---------------------|--------------------|---|--|
| Proprietary         |                    |   | Not classified                                   |
| potassium hydroxide | (CAS No) 1310-58-3 |   | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1A, H314 |
| phosphoric acid     | (CAS No) 7664-38-2 |   | Met. Corr. 1, H290<br>Skin Corr. 1B, H314        |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label).
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes eye irritation.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.
- Storage temperature :  $\geq 25$  (5 - 42) °C

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| phosphoric acid (7664-38-2)     |                                    |                     |
|---------------------------------|------------------------------------|---------------------|
| ACGIH                           | ACGIH TWA (mg/m <sup>3</sup> )     | 1 mg/m <sup>3</sup> |
| ACGIH                           | ACGIH STEL (mg/m <sup>3</sup> )    | 3 mg/m <sup>3</sup> |
| potassium hydroxide (1310-58-3) |                                    |                     |
| ACGIH                           | ACGIH Ceiling (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup> |
| Proprietary                     |                                    |                     |
| Not applicable                  |                                    |                     |

### 8.2. Exposure controls

- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Wear appropriate mask.
- Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : brown
- Odour : Characteristic odour
- Odour threshold : No data available
- pH :  $\leq 2$
- Melting point : No data available
- Freezing point :  $\leq 0$  °C
- Boiling point :  $\geq 100$  °C
- Flash point : None
- Relative evaporation rate (butylacetate=1) : No data available
- Flammability (solid, gas) : No data available
- Explosive limits : No data available
- Explosive properties : No data available
- Oxidising properties : No data available
- Vapour pressure : No data available

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|                                  |  |
|----------------------------------|--|
| Relative density                 | : No data available  |
| Relative vapour density at 20 °C | : No data available  |
| Density                          | : >= 1.095 g/ml  |
| Solubility                       | : Soluble in water.<br>Water: Solubility in water of component(s) of the mixture :<br>• potassium hydroxide: 121 g/100ml (25 °C) • phosphoric acid: Complete |
| Log Pow                          | : No data available  |
| Auto-ignition temperature        | : No data available  |
| Decomposition temperature        | : No data available  |
| Viscosity                        | : No data available  |
| Viscosity, kinematic             | : No data available  |
| Viscosity, dynamic               | : No data available  |

### 9.2. Other information

VOC content : <= 10 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| phosphoric acid (7664-38-2) |       |
|-----------------------------|-------|
| LD50 oral rat               | (Rat) |

| potassium hydroxide (1310-58-3) |                          |
|---------------------------------|--------------------------|
| LD50 oral rat                   | 333 mg/kg (Rat)          |
| ATE US (oral)                   | 333.000 mg/kg bodyweight |

|  |  |
|--|--|
| Skin corrosion/irritation                          | : Causes skin irritation.<br>pH: <= 2  |
| Serious eye damage/irritation                      | : Causes eye irritation.<br>pH: <= 2   |
| Respiratory or skin sensitisation                  | : May cause an allergic skin reaction.   |
| Germ cell mutagenicity                             | : Not classified<br>Based on available data, the classification criteria are not met |
| Carcinogenicity                                    | : Not classified   |
| Reproductive toxicity                              | : Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure)   | : Not classified   |
| Specific target organ toxicity (repeated exposure) | : Not classified   |

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|   |   |
|---|---|
| Aspiration hazard                                   | : Not classified  |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries after skin contact                | : Causes skin irritation.   |
| Symptoms/injuries after eye contact                 | : Causes eye irritation.  |

### SECTION 12: Ecological information

#### 12.1. Toxicity

| <b>phosphoric acid (7664-38-2)</b>        |  |
|---|--|
| LC50 fish 1                               | 138 mg/l (96 h; Pisces; Pure substance)          |
| LC50 other aquatic organisms 1            | 240 mg/l (96 h; Protozoa; Pure substance)        |
| LC50 fish 2                               | 100 - 1000 mg/l (Pisces; Pure substance)         |
| LC50 other aquatic organisms 2            | 100 - 1000 mg/l (Pure substance)                 |
| TLM fish 1                                | 138 ppm (24 h; Gambusia affinis; Pure substance) |
| Threshold limit other aquatic organisms 1 | 240 mg/l (96 h; Protozoa; Pure substance)        |
| Threshold limit other aquatic organisms 2 | 100 - 1000, Pure substance                       |
| <b>potassium hydroxide (1310-58-3)</b>    |  |
| LC50 fish 1                               | 28.6 mg/l (24 h; Pisces; Pure substance)         |
| LC50 other aquatic organisms 1            | 100 - 1000 mg/l (96 h)                           |
| LC50 fish 2                               | 80 mg/l (96 h; Gambusia affinis; Pure substance) |
| Threshold limit other aquatic organisms 1 | 100 - 1000, 96 h                                 |

#### 12.2. Persistence and degradability

| <b>Bio Kelp Plus 0-3-2</b>             |  |
|--|--|
| Persistence and degradability          | Not established.   |
| <b>phosphoric acid (7664-38-2)</b>     |  |
| Persistence and degradability          | Biodegradability: not applicable. No (test) data on mobility of the components available. Not established. |
| Biochemical oxygen demand (BOD)        | Not applicable   |
| Chemical oxygen demand (COD)           | Not applicable   |
| ThOD                                   | Not applicable   |
| BOD (% of ThOD)                        | Not applicable   |
| <b>potassium hydroxide (1310-58-3)</b> |  |
| Persistence and degradability          | Biodegradability: not applicable. Low potential for adsorption in soil. Not established.                   |
| Biochemical oxygen demand (BOD)        | Not applicable   |
| Chemical oxygen demand (COD)           | Not applicable   |
| ThOD                                   | Not applicable   |
| BOD (% of ThOD)                        | Not applicable   |
| <b>Proprietary</b>                     |  |
| Persistence and degradability          | Not established.   |

#### 12.3. Bioaccumulative potential

| <b>Bio Kelp Plus 0-3-2</b>             |   |
|--|---|
| Bioaccumulative potential              | Not established.                                  |
| <b>phosphoric acid (7664-38-2)</b>     |   |
| Log Pow                                | -0.77 (Estimated value)                           |
| Bioaccumulative potential              | Bioaccumulation: not applicable. Not established. |
| <b>potassium hydroxide (1310-58-3)</b> |   |
| Bioaccumulative potential              | Bioaccumulation: not applicable. Not established. |
| <b>Proprietary</b>                     |   |
| Bioaccumulative potential              | Not established.                                  |

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

### TDG

No additional information available

### Transport by sea

No additional information available

### Air transport

UN-No. (IATA) : Not regulated under IATA

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

| Proprietary | CAS No | % |
|-------------|--------|---|
|-------------|--------|---|

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) 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.

| phosphoric acid (7664-38-2)     |         |
|---------------------------------|---------|
| CERCLA RQ                       | 5000 lb |
| potassium hydroxide (1310-58-3) |         |
| CERCLA RQ                       | 1000 lb |

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

| phosphoric acid (7664-38-2)                                |
|--|
| U.S. - Massachusetts - Right To Know List                  |
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - Pennsylvania - RTK (Right to Know) List             |

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### potassium hydroxide (1310-58-3)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-statements:

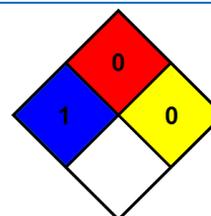
|      |   |
|------|---|
| H290 | May be corrosive to metals              |
| H302 | Harmful if swallowed                    |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation                  |
| H317 | May cause an allergic skin reaction     |
| H320 | Causes eye irritation                   |

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

NFPA specific hazard : None



HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection : C

C - Safety glasses, Gloves, Synthetic apron

SDS US (GHS HazCom 2012)

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