

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product name	KH Powder
Product number	KHP-0500, KHP-1000, KHP-2500N
Brand	ReefX®

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

For adjusting and maintaining alkalinity levels in aquaria.

**1.3 Details of the supplier of the safety data sheet**

Name	Live Reef Ltd
Address	8-9 Mountbatten Road EX16 6SW Tiverton Devon UK

Telephone	+44 (0)800 8620270
email	info@livereef.uk

**1.4 Emergency telephone number**

Live Reef Distribution Ltd  
+44 (0)800 8620270

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 (CLP)**

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 [CLP]**

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

**2.3 Other hazards**

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

No components need to be reported according to the applicable regulations.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Following inhalation	Move exposed individual to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Seek medical advise if discomfort or irritation persists.
Following skin contact	Take off contaminated clothing immediately. Wash off with soap and plenty of water. Seek medical advise if discomfort or irritation persists.
Following eye contact	In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Seek medical advise if irritation or discomfort persists, or if concerned.
Following ingestion	Rinse mouth thoroughly. Do not induce vomiting. Do not induce vomiting. If victim is conscious, wash mouth thoroughly with plenty of water. Seek medical attention if irritation, discomfort or vomiting persists.

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

Irritation, Nausea.

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

Not available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Use extinguishing media suitable to the surroundings such as, dry chemical powder, chemical foam, water spray and carbon dioxide.

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

Not combustible.

When heated sufficiently, product may decompose to form smoke and toxic fumes, gases or vapours that may cause dizziness.

Toxic fumes such as carbon and sodium oxides may be evolved on thermal decomposition

### 5.3 Advice for firefighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

## SECTION 6: Accidental release measures

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

Use personal protective equipment.  
Avoid inhalation of dusts or aerosols.  
Ensure adequate ventilation.  
Ventilate area of spill.

### 6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

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

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.  
Avoid inhalation of dusts or aerosols.  
Wash thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice.  
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.  
Workers should wash hands and face before eating, drinking and smoking.  
Remove contaminated clothing and protective equipment before entering eating areas.

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

Keep only in original container.  
Avoid large temperature changes and store in a cool, dry, well ventilated environment and away from direct sunlight.  
Keep containers closed when not in use.  
Keep away from strong acids and strong oxidizing compounds.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. KH Powder

Parameter	Exposure limit
Value	N/A

### 8.2 Exposure controls

#### Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits.

If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal protection equipment

#### Pictograms



#### Eye and face protection

Wear protective safety glasses.

#### Skin protection

Wear protective gloves to prevent skin exposure.

#### Body protection

Wear appropriate long-sleeved clothing to minimize skin contact.

During normal non-professional use of the preparation no personal protective equipment is required. However, in case of manufacture or spillage, use as appropriate to the size of the spill.

#### Respiratory protection

Normal use: none.

If user operations generate dust, fume or mist: wear mask or respirator with filter type P2.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	White powder
Odour	None
Odour threshold	No data available
pH	8.4
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Non flammable
Upper/lower flammability limits	Non flammable
Vapour pressure	No data available
Vapour density	No data available
Relative density	2.21 - 2.23 @ 20 °C
Solubilit(ies)	Soluble in water: 93.4g/l @ 20 °C
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	Non flammable
Decomposition temperature	Decomposes above 50 °C
Viscosity	No data available
Explosive properties	Non explosive
Oxidising properties	Non oxidising

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Decomposes slowly on exposure to water.  
Reacts with acids, evolving carbon dioxide (CO<sub>2</sub>).

### 10.2 Chemical stability

The product is stable under normal handling and storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions are not expected, under normal conditions of storage and use.

### 10.4 Conditions to avoid

Long term exposure to heat and direct sunlight.  
Exposure to moisture.

### 10.5 Incompatible materials

Strong acids, strong oxidizing compounds.

### 10.6 Hazardous decomposition products

None.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD<sub>50</sub>, Rat, > 4000 mg/kg bw (oral)

#### Skin corrosion/irritation

Not classified according to EU Directive 67/548/EEC and CLP Regulation (EC) No. 1272/2008.

#### Serious eye damage/irritation

Not classified according to EU Directive 67/548/EEC and CLP Regulation (EC) No. 1272/2008.

#### Respiratory or skin sensitization

Considered not to have any sensitising properties, based on the physiological properties of both its constituent ions and the lack of any reported issues.

#### Germ cell mutagenicity

All test results have proven negative.  
Is considered not to be genotoxic.

#### Carcinogenicity

No evidence of carcinogenic effects.

#### Reproductive toxicity

No data on reproduction toxicity available.  
However, based on the normal physiological role of compound ions, no toxicity on mammalian or human reproduction is expected.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

Fish, *Lepomis macrochirus* : 96hr, LC50, 7100 mg/l  
Fish, *Lepomis macrochirus* : 96hr, NOEC, 5200 mg/l  
Invertebrates, *Daphnia magna* : 48hr LC50, 4100 mg/l  
Invertebrates, *Daphnia magna* : 48hr, NOEC 3100 mg/l  
Invertebrates, *Daphnia magna* : 21day, NOEC >576 mg/l

**12.2 Persistence and degradability**

Compounds present in the preparation would be readily bio-degradable in the environment.

**12.3 Bioaccumulative potential**

Not applicable.

**12.4 Mobility in soil**

Not applicable.

**12.5 Results of PBT and vPvB assessment**

Not applicable.

**12.6 Other adverse effects**

No other adverse effects are identified.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste treatment**

If recycling spilled product is not practicable, dispose of in compliance with local or national regulations.

- Dissolve in water and neutralise with an acid, under controlled conditions.
- Do not dispose of directly with acids.

**Packaging:**

- Where possible, recycling is preferred to disposal or incineration.
- Clean container with water, dispose of rinse water in accordance with local or national regulations.

**SECTION 14: Transport information**

14.1 UN Number

None

14.2	UN Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	None

## SECTION 15: Regulatory information

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

#### TSCA Inventory

All components are listed

#### Water hazard class

WGK1, VwVwS (Germany)

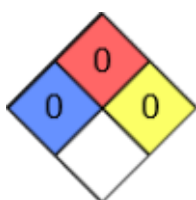
### 15.2 Chemical Safety Assessment

Yes.

#### HMIS Rating

KH Powder	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

#### NFPA Rating



## SECTION 16: Other information

#### Further information/disclaimer

The substance(s) covered in this document do not legally require a Safety Data Sheet (SDS).

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.