



## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name: GO-pH  
Product code: GO-01

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

Fertiliser

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

Global Adjuvants Company Ltd  
20-22 Wenlock Road, London, N1 7GU, UK  
Tel: +44 (0) 1480 810137  
Email: office@global-adjuvants.com

### 1.4. Emergency telephone number

For advice on medical emergencies, fires, spillages or chemical hazards ONLY: **+44 (0) 1480 810137**

## 2. HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

According to the Regulation CE 1272/2008 (CLP)  
Skin Corr. 1B; H314  
Eye Dam. 1, H318

### 2.2. Label elements



Signal word: Danger

#### Hazard statements

H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.

#### Precautionary statements

P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
P303+P361+P353+P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.  
P363: Wash contaminated clothing before reuse.  
P501: Dispose of contents/container in accordance to local/national/international regulations.

### 2.3. Other hazards

In accordance with that established in Appendix XII of EU Regulation No 1907/2006, the substance does not comply with the identification criteria PBT or vPvB.



### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1. Substances

Name	% p/p	CAS	IUPAC	Index no.	REACH reg. no.	Regulation classification 1272/2008
Phosphoric Acid	33.00	7665-38-2	Phosphoric acid	015-011-00-6	01-2119485924-24-xxxx	Skin Corr. 1B; H314

See section 16 for full text of H phrases.

### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### Ingestion

Rinse out the mouth and, if the person is conscious, give them plenty of water. Seek medical attention.

##### Inhalation

Breathe fresh air. In case of discomfort, seek medical attention.

##### Skin contact

Rinse well with soap and water. Remove stained or spattered clothing. If irritation persists, seek medical attention.

##### Eye contact

Rinse with abundant water for at least 15 minutes. Hold the eyelids open and keep rinsing. Remove contact lenses, if worn. If irritation persists, seek medical attention.

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

Acute – Irritation of the skin and eyes.

Delayed – Respiratory irritation. Unconsciousness.

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

In the event of ingestion, consider the possibility of an endoscope and stomach pump. The inhalation of gases from a fire may produce methaemoglobin.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

##### Suitable

Water

##### Unsuitable

Do not suffocate the fire with sand, vapour or foam extinguishers.

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

May exacerbate fire. May maintain fire even in the absence of oxygen. May decompose during fire generating toxic gases such as nitrogen oxide.

#### 5.3. Advice for firefighters

Refrigerate containers exposed to fire. Use autonomous breathing apparatus and suitable, fire protection equipment. Prevent the water used during extinction from reaching the sewage network.



## 6. ACCIDENTAL RELEASE MEASURES

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

Use safety glasses, chemical agent-resistant gloves (PVC) and rubber boots. Follow OSHA standards regarding respirators described in 29 CFR 1910.134 or European standards EN 149.

### 6.2. Environmental precautions

Prevent the product from reaching public sewage networks or water supplies. Notify the competent authorities in the event of water supply contamination.

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

Contain and/or clean up the spill with suitable material non-combustible (sand, chalk, dolomite, plaster) or dilute with plenty of water. Gather the spill in labelled containers.

### 6.4. Reference to other sections

See sections 8 and 13.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### Technical measures / Preventive measures

Avoid mixing with combustible materials. Use the recommended personal safety equipment.

#### General measures

Avoid contact with skin and eyes. Keep away from foodstuffs and drinks.

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

Keep away from heat and ignition sources and combustible substances. Do not store in direct sunlight. Store in plastic or stainless-steel containers.

### 7.3. Specific end use(s)

See exposure scenarios.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Limit exposure values	Component	CAS	Limit exposure value
	Phosphoric Acid	7665-38-2	VLAED: 1 mg/m <sup>3</sup> VLAEC: 2 mg/m <sup>3</sup>

	Industrial			Consumer		
Derivative ISQ – DNEL – Oral	Unavailable			Unavailable		
Derivative ISQ – DNEL – Inhalation	2.92 mg/m <sup>3</sup>			0.73 mg/kg pc/day		
Derivative ISQ – DNEL – Dermal	Corrosive			Corrosive		
Derivative ISQ – PNEC	Water	Air	Soil	Microbiology	Sediment	Oral
	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable

### 8.2. Exposure controls

#### Technical controls

Emergency eyewash and showers should be available: Work should be carried out with sufficient ventilation.



Eye protection

Protective glasses against chemical products. Protection screens for the entire face.

Body and skin protection

Protective clothing. Rubber boots.

Respiratory protection

In the case of vapours use face masks with filters.

Hand protection

Gloves resistant to chemical agents.

Control of exposure to the environment

Prevent the product from reaching public sewage networks or water supplies. See section 6.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance: Clear liquid

Smell: Characteristic of fertilizers

Odour threshold: Unknown

pH: < 2

Melting point/freezing point: It depends on the mixture. See the crystallization temperature in the specification data sheet of the product.

Boiling point/range: Unknown

Flash point: Non-flammable

Evaporation rate: Unknown

Flammability: Non-flammable

Upper/lower flammability or explosive limit: Non-flammable / Not explosive

Vapour pressure: Unknown

Vapor density: Unknown

Relative density: 1.0 - 1.4 g/cc (20 °C)

Solubility: Water-soluble

noctanol/water partition coefficient: Unknown

Autoignition temperature: Non-flammable

Decomposition temperature: Unknown

Viscosity: Not available

Explosive properties: Not explosive

Oxidising properties: Not oxidizing

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

May react violently with strong bases.

### 10.2. Chemical stability

Product is stable under normal conditions of storage and use.

### 10.3. Possibility of hazardous reactions

May decompose during fire, generating toxic gases such as nitrogen oxides.

### 10.4. Conditions to avoid

High temperature.

### 10.5. Incompatible materials



Alkali and metals

**10.6. Hazardous decomposition products**

Nitrogen oxides. In contact with metals may produce hydrogen.

**11. TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Acute toxicity

Component	CAS	Method	Species	Via	Result
Phosphoric Acid	7665-38-2	-	Rat	Oral	LD50 = 2600 mg/kg (Phosphoric Acid 75%)

Corrosion/irritation

Component	CAS	Method	Species	Via	Result
Phosphoric Acid	7665-38-2	-	-	Cutaneous. Ocular.	Corrosive

Sensitization

Component	CAS	Method	Species	Via	Result
Phosphoric Acid	7665-38-2	-	-	-	Non-sensitizing

Toxicity through repeated doses

Component	CAS	Method	Species	Via	Result
Phosphoric Acid	7665-38-2	-	-	-	Not available. No data

Carcinogenic

Component	CAS	Method	Species	Via	Result
Phosphoric Acid	7665-38-2	Not applicable	-	-	Not available. No data

Mutagenicity

Component	CAS	Method	Species	Via	Result
Phosphoric Acid	7665-38-2	OECD 471, 473, 476	-	-	Not mutagenic

Reprotoxic

Component	CAS	Method	Species	Via	Result
Phosphoric Acid	7665-38-2	OECD 422	Rat	Oral	Not reprotoxic

**12. ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Aquatic toxicity

Component	CAS	Fishes	Crustaceans	Seaweeds
Phosphoric Acid	7665-38-2	Lethal pH = 3 - 3.25	LC50 (48h) > 100 mg/L	EC50 (72h) > 100 mg/L

Terrestrial toxicity

Component	CAS	Macroorganism	Microorganism	Other organisms
Phosphoric Acid	7665-38-2	Unavailable	Unavailable	Unavailable

Microbiological activity in residual water treatment plants

Component	CAS	Aquatic microorganism toxicity
Phosphoric Acid	7665-38-2	Unavailable

**12.2. Persistence and degradability**

Component	CAS	Period	Deterioration half-life	Deterioration period in waste water treatment plants
Phosphoric Acid	7665-38-2	Hydrolysis: Not applicable Photolysis: Not applicable Biodegradation: Not applicable	Not applicable	Not applicable



### 12.3. Bioaccumulation potential

Component	CAS	Octanol-water partition coefficient (Kow)	Bioconcentration factor (BCF)	Memo
Phosphoric Acid	7665-38-2	Not applicable	-	Does not bioaccumulate

### 12.4. Mobility in soil

Component	CAS	Result
Phosphoric Acid	7665-38-2	Inorganic phosphates may be absorbed by plants and used as a nutrient. They may also form precipitates. The resulting compounds are not soluble in water and form part of the soil or sediment.

### 12.5. Evaluation results for inorganic substances

Being inorganic substances, evaluation criteria are not applied

### 12.6. Others adverse effects

Unavailable

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Residues

Neutralise the waste with sand, limestone, dolomite or plaster or dilute with abundant water.  
 Dispose of as field fertiliser or in an authorised waste treatment facility.

Packing

Empty the containers completely and dispose of as non-hazardous material or material for recycling if local legislation so permits.

## 14. TRANSPORT INFORMATION

- 14.1. **UN number:** 1760
- 14.2. **UN proper shipping name:** Corrosive liquid N.O.S (containing phosphoric acid)
- 14.3. **Transport hazard class(es):** 8
- 14.4. **Packing group:** III
- 14.5. **Environmental hazards:** Not dangerous.
- 14.6. **Special precautions for user:** See section 7 and 8. Limited quantity 5L.
- 14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code:** Not applicable

## 15. REGULATORY INFORMATION

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

@TEC2364  
 @TEC2365  
 @TEC2366

### 15.2. Chemical safety assessment

Chemical Safety Evaluation carried out for the components of the mixture.



## 16. OTHER INFORMATION

### Hazard statements

H318: Causes serious eye damage.

H314: Causes severe skin burns and eye damage.

### Precautionary statements

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353+P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

P363: Wash contaminated clothing before reuse.

P501: Dispose of contents/container in accordance to local/national/international regulations.

### Bibliography and data sources

Safety Information Sheets of hazardous components.

### Abbreviations and acronyms

NOAEL: No Observed Adverse Effects Level

LD50: Lethal dose 50%

LC50: Lethal concentration 50%

DNEL: Concentration without derived effect.

PNEC: Predicted No-Effect Concentration

### Suitable employee training

Obligatory training in occupational risk prevention.

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