

according to the requirements of Regulation (EC) No. 1907/2006

Product name: Cliniphos Version: 02-12 Revision Date: 10 February 2012

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: Product name: Cliniphos

Pure substance/mixture: Mixture.

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

Recommended use: Sanitiser for agriculture.

Uses advised against: No information available.

1.3 Details of the supplier of the safety data sheet GEA Farm Technologies (UK) Ltd

Wylye Works, Watery Lane, Bishopstrow, Warminster,

Wiltshire BA12 9HT England

Telephone: +44 (0) 1985 216 444; Fax: +44 (0) 1985 216 692

For further information please contact: Email address: info.agroserve@gea.com

1.4 Emergency telephone number: +44 (0) 870 190 6777 (GEA Farm Technologies) (24 hours, 7 days)

Section 2. Hazards identification

2.1 Classification of the substance or mixture Classification according to EU Directives 67/548/EEC or 1999/45/EC:

I.

2.2 Label elements



C: CORROSIVE R-phrase(s) R34 - Causes burns. S-phrase(s)

S 1/2 - Keep locked up and out of the reach of children.

S23 - Do not breathe gas/fumes/vapour/spray.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 - Wear suitable protective clothing.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible).

2.3 Other information May cause respiratory tract irritation.

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating

(vPvB).

Section 3. Composition / information on ingredients

3.2 Mixtures:

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
Phosphori acid	c 231-633-2	7664-38-2	26-29	C; R34	Skin Corr. 1B (H314) GHS05 (Dgr)	no data available
Nitric acid	231-714-2	7697-37-2	12-14	C; R35 O; R8	Skin Corr. 1A (H314) Ox. Liq. 3 (H272) GHS03,GHS05 (Dgr)	no data available

For the full text of R-phrases and H-Statements see Section 16

Section 4. First Aid measures

4.1 Description of first aid measures

Eye contact: Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes.

Skin contact: Immediate medical attention is required. Wash off immediately with plenty of water for at least 15 minutes.

Ingestion: Immediate medical attention is required. Never give anything by mouth to an unconscious person. Wash out mouth

with water and give 100 - 200 ml water to drink. Do NOT induce vomiting.



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Inhalation:

Immediate medical attention is required. Remove patient from exposure, keep warm and at rest. Administer oxygen if breathing is difficult and you are trained. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation

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

Main Symptoms: Burning.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

Section 5. Fire fighting measures

5.1 Extinguishing media

Suitable Extinguishing Media:

Use extinguishing agent suitable for type of surrounding fire. Cool

containers / tanks with water spray.

Extinguishing media which shall not be used for safety reasons:

No information available.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

5.3 Advice for fire fighters As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin and the eyes. Avoid breathing vapours or mists. Ensure adequate ventilation. Wear protective gloves/clothing and eye/face protection. For personal protection see section 8.

6.2 Environmental precautions

Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Small spillage: Dilute with plenty of water.

Large spillage: Dike to collect large liquid spills. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Flush spillage area with plenty of water. Dispose of wastes in an approved waste disposal facility.

6.4 Reference to other sections

Waste Disposal Methods: See also section 13.

Section 7. Handling and storage

7.1 Precautions for safe handling

Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Wear acid resistant clothing and equipment. In case of insufficient ventilation, wear suitable respiratory equipment. Remove contaminated clothing and shoes.

Do not eat, drink or smoke during work. Wash thoroughly after handling.

7.2 Conditions for safe storage including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Keep cool. Protect from sunlight. Store separately from incompatible materials; Hypochlorite solutions. Alkalis. Sulfides. Metals and metal powders.

metai powders.

7.3 Specific end use(s) Sanitation agent.

Section 8. Exposure controls / personal protection

8.1 Control parameters

Component	Phosphoric acid 7664-38-2 (26 - 29)		
European Union	TWA 1 mg/m³	STEL 2 mg/m ³	
United Kingdom	STEL 2 mg/m³	TWA 1 mg/m³	
Ireland	TWA: 1 mg/m ³	STEL: 2 mg/m ³	
Component	Nitric acid 7697-37-2 (12-14)		
United Kingdom	STEL: 1 ppm	STEL: 2.6 mg/m ³	
Ireland	STEL: 1 ppm	STEL: 2.6 mg/m ³	



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Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2 Exposure controls

Appropriate engineering controls Provide adequate ventilation, including appropriate local extraction, to

ensure that occupational exposure limits are not exceeded.

Personal protective equipment

Eye Protection Safety glasses with side-shields (EN 166).

Hand Protection Rubber gloves (EN 374).

Skin and body protection Wear acid resistant clothing and equipment. Wear rubber boots.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment

(BS EN 14387:2004+A1).

Hygiene measuresHandle in accordance with good industrial hygiene and safety practice.

Environmental Exposure ControlsAvoid release to the environment.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid.

Appearance: Aqueous solution.

Colourless.

Odour; Odour threshold No information available.

Property

Flammability (solid, gas)

Water solubility

Explosive properties

Not applicable.

Miscible.

Not explosive.

No information available for:

pH, Melting/freezing point; Freezing point; Boiling point/boiling range; Flash point; Evaporation rate; Flammability limits in air; Vapour pressure; Vapour density; Relative density; Solubility in other solvents; Partition coefficient: n-octanol/water; Autoignition temperature; Decomposition temperature; Viscosity, kinematic; Viscosity, dynamic; Oxidising Properties.

temperature, viscosity, kinematic, viscosity, dynamic, Oxid

Corrosive

9.2 Other information No information available for:

Softening point; Molecular weight; VOC Content (%); Density; Bulk Density.

Section 10. Stability and Reactivity

10.1 Reactivity Reaction with: Alkalis. Carbonates. Sulfides. Cyanides.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous

reactions

Evolves chlorine on contact with hypochlorite solutions. Reacts with metals to form flammable and explosive hydrogen gas. Reaction with sulfides and cyanides will produce toxic gases.

10.4 Conditions to avoid None known.

10.5 Incompatible materials Common metals. Alkalis. Sulfides. Hypochlorite solutions. Combustible material.

10.6 Hazardous decomposition Carbon oxides. Phosphorous oxides.

products

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid	1530 mg/kg (Rat)	2730 mg/kg (Rabbit)	>850 mg/m³(Rat) 1 h
Nitric acid			130 mg/m3(Rat)4 h 7 mg/L(Rat)1 h

Skin corrosion / irritation



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Serious damage / eye irritation Corrosive. May cause severe damage to eyes.

Respiratory or skin sensitisationNot sensitising.MutagenicityNot classified.CarcinogenicityNot classified.

Chemical nameEuropean UnionIARCNitric acidGroup 2A

Reproductive toxicity Not classified.

STOT - Single exposure May cause respiratory irritation.

STOT - Repeated exposure Not classified.

Aspiration hazard Not classified.

Other information No information available.

Section 12. Ecological information

12.1 Toxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Phosphoric acid		3 - 3.5: 96 h Gambusia affinis mg/L LC50	4.6: 12 h Daphnia magna mg/L EC50
Nitric acid		72: 96 h Gambusia affinis mg/L LC50	

12.2 Persistence and degradability

Acidity may be reduced by natural water hardness. Phosphates may persist.

12.3 Bioaccumulative potential

No information available.

Chemical name	log Pow
Nitric acid	0

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This preparation contains no substance considered to be persistent, bioaccumulating nor

toxic (PBT).

12.6 Other adverse effects

No information available.

Contaminated packaging

Section 13. Disposal considerations

13.1 Waste treatment methods Waste from residues / unused products

Dispose of as hazardous waste in compliance with

local and national regulations.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

	ADR/RID/ADN	ICAO/IATA	IMDG / IMO
14.1 UN Number:	3264	3264	3264
14.2 Proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric Acid. Phosphoric acid.)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric Acid. Phosphoric acid.)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric Acid. Phosphoric acid.)

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14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	II	II	II
14.5 Environmental hazards	Not classified	Not classified	Not classified
14.6 Special precautions for user	Contact with metals may evolve flammable hydrogen gas		
14.7 Transport in bulk according MARPOL73/78 and the IBC c			

Section 15. Regulatory information

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

15.2 Chemical safety assessment:

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Classification according to EU Directives 67/548/EEC or 1999/45/EC.

No information available. Chemical Safety Assessment has not been carried out.

Section 16. Other information

Full text of R-phrases referred to under sections 2 and 3

R34 - Causes burns.

R8 - contact with combustible material may cause fire.

R35 - Causes severe burns.

Full text of H-Statements referred to under sections 2 and 3

H272 - May intensify fire; oxidiser.

H314 - Causes severe skin burns and eye damage.

Issuing date 10 February 2012.
Revision date 10 February 2012.
Revision note Not applicable.

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Disclaimer

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