

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name ClearFlo-pH-HA-D 10-24%
REACH Registration number 01-2119484862-27
CAS-No. 7647-01-0
EC No. 231-595-7

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

Identified uses Manufacture of substances. Intermediate Industrial use pH regulating agent Treatment of drinking water, has received approval by the European Committee for Standardisation. Raw material. Washing and cleaning products Formulating packaged products Professional use Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier GPC Clear Solutions Limited,
 Unit 57, Riverside Estate,
 Sir Thomas Longley Road, Medway City Estate,
 Rochester, Kent ME2 4DP
 T: 01634 326920
 F: 01634 570469
 E: sales@gpcclearsolutions.co.uk

1.4. Emergency telephone number

01634 326920 (Office hours only)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Met. Corr. 1 - H290
Human health	Not classified.
Environment	Not classified.

Classification (67/548/EEC) Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

EC No. 231-595-7
Label In Accordance With (EC) No. 1272/2008



Signal Word Warning
Hazard Statements H290 May be corrosive to metals.

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Supplementary Precautionary Statements

P234	Keep only in original container.
P390	Absorb spillage to prevent material damage.
P406	Store in corrosive resistant/... container with a resistant inner liner.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product name	ClearFlo-pH-HA-D 10-24%
REACH Registration number	01-2119484862-27
CAS-No.	7647-01-0
EC No.	231-595-7
Gross Formula	HCl solution in water

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Remove affected person from source of contamination. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. For breathing difficulties oxygen may be necessary.

Inhalation

Move the exposed person to fresh air at once.

Ingestion

Immediately rinse mouth and provide fresh air. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Never give liquid to an unconscious person.

Skin contact

Promptly flush contaminated skin with water. Promptly remove clothing if soaked through and flush the skin with water. Continue to rinse for at least 15 minutes.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Corrosive gases/vapours/fumes of: Chlorine. Hydrogen chloride (HCl).

Unusual Fire & Explosion Hazards

If heated, volume and pressure increases strongly, resulting in explosion of container.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Wear protective gloves and, in case of splashes, goggles/face shield too.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Neutralise small amounts with sodium bicarbonate or lime and flush to sewer with large amounts of water. Large Spillages: Clean-up personnel should use respiratory and/or liquid contact protection. Recover the product and place in a suitable container for reuse. Contain, neutralise with lime or soda ash, and dispose of in accordance with local regulations.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Eye wash facilities and emergency shower must be available when handling this product. Do not use in confined spaces without adequate ventilation and/or respirator. Wear appropriate protective clothing. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool and well-ventilated place. Keep container tightly sealed when not in use. Store away from: Alkalis. Store in vented vessels of rubber lined mild steel or HDPE. Storage tanks and day tanks must be vented to the outside atmosphere, using suitable piping.

Storage Class

Corrosive storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Hydrochloric acid (0.1% - 10%)	WEL	1 ppm	2 mg/m ³	5 ppm	8 mg/m ³	

WEL = Workplace Exposure Limit.

Ingredient Comments

Data relates to hydrogen chloride gas
EH40/2005 Workplace exposure limits (UK Health and Safety Executive)

DNEL

Inhalation.	Short Term	15	mg/m ³
Inhalation.	Long Term	8	mg/m ³

8.2. Exposure controls

Protective equipment



Engineering measures

Provide eyewash stations and safety showers close to the workstation area. Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Provide corrosion-resistant local exhaust ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

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Hand protection

Protective gloves must be used if there is a risk of direct contact or splash. PVC or rubber gloves are recommended.

Eye protection

Contact lenses should not be worn when working with this chemical! If risk of splashing, wear safety goggles or face shield.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated.

Promptly remove any clothing that becomes wet.

Skin protection

Wear apron or protective clothing in case of splashes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Colourless-pale yellow liquid.
Odour	Slightly pungent odour.
Solubility	Miscible with water
Initial boiling point and boiling range (°C)	100 Varies with concentration
Relative density	1.02 Varies with concentration
pH-Value, Conc. Solution	<0
pH-Value, Diluted Solution	1.2 1%
Viscosity	1-10 Varies with concentration

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

In contact with metals liberates flammable hydrogen gas, which may form explosive mixtures in a confined space.

10.4. Conditions to avoid

Toxic gases are generated when heated. Reacts with alkalis and amines generating excessive heat.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Irritating gases/vapours/fumes of: Chlorine. Hydrogen chloride (HCl).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

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Bioaccumulative potential

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility:

Chloride ions are mobile in soil, eventually draining into surface water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Do not allow to enter watercourses or soils. Discharge may have an adverse effect on water pH.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction. Recover and reclaim or recycle, if practical.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1789
UN No. (IMDG)	1789
UN No. (ICAO)	1789

14.2. UN proper shipping name

Proper Shipping Name HYDROCHLORIC ACID

14.3. Transport hazard class(es)

ADR/RID/ADN Class Class 8: Corrosive substances.

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

Emergency Action Code 2R

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

ClearFlo-pH-HA-D 10-24%

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

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Updated concentration limits.

Issued By GPC Clear Solutions Limited

Revision Date 20/09/2013

Revision 2

Supersedes date 24/04/2013

Risk Phrases In Full

NC Not classified.

Hazard Statements In Full

H290 May be corrosive to metals.

Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.