

# SAFETY DATA SHEET MAXIFOAM ACID

SECTION 1: Identification of	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	MAXIFOAM ACID
Product number	HLM7
1.2. Relevant identified use	s of the substance or mixture and uses advised against
Identified uses	Acidic Detergent. For professional use only.
Uses advised against	Not for use by hand. Not for direct contact with Food or Beverage stuffs. Not for Direct Oral Consumption. Must not be used where Hypochlorite based chemicals (Bleach) are present.
1.3. Details of the supplier of	of the safety data sheet
Supplier	UK - Holchem Laboratories Ltd. Gateway House, Pilsworth Road, Bury, BL9 8RD Tel : +44 (0) 1706 222288; e-mail info@holchem.co.uk EU - Kersia Deutschland GmbH, Marie-Curie-Straße 23 53332 Bornheim - Sechtem
1.4. Emergency telephone	number
Emergency telephone	Emergency Information:- For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice call:- +44(0) 1865 407333. Note:- This number will not accept order queries or calls dealing with equipment breakdowns. This product is registered with the NPIS. UK Environment Agency 24hour Advisory Service 0800 807060. Irish Environmental Protection Agency 1890 335599 (This is a Lo Call Number) This product is registered with the National Poisons Information Centre at Beaumont Hospital, Dublin 9, Ireland. Tel:+353 (01) 809 2566.
SECTION 2: Hazards ident	ification
2.1. Classification of the sul Classification (SI 2019 No.	

<b>`</b>	/
Physical hazards	 Met. Corr. 1 - H290
Health hazards	Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards	Not Classified
2.2. Label elements	
Hazard pictograms	
Signal word	Danger
Hazard statements	H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements	<ul> <li>P234 Keep only in original packaging.</li> <li>P280 Wear protective clothing, gloves, eye and face protection.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water or shower.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P313 Get medical advice/ attention.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Contains	PHOSPHORIC ACID, 1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N- DIMETHYL-, N-C8-18 (EVEN NUMBERED) ACYL DERIVS., HYDROXIDES, INNER SALTS
Detergent labelling	15 - < 30% phosphates, 5 - < 15% amphoteric surfactants
Supplementary precautionary statements	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P404 Store in a closed container.

## 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

3.2. Mixtures		
PHOSPHORIC ACID		10-30%
CAS number: 7664-38-2	EC number: 231-633-2	
Classification		
Met. Corr. 1 - H290		
Acute Tox. 4 - H302		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
2-(2-BUTOXYETHOXY)ETHANO	L	5-10%
CAS number: 112-34-5	EC number: 203-961-6	
Classification		
Eye Irrit. 2 - H319		
1-PROPANAMINIUM, 3-AMINO-N N,N-DIMETHYL-, N-C8-18 (EVEN DERIVS., HYDROXIDES, INNER	NUMBERED) ACYL	5 - 10%
CAS number: 97862-59-4	EC number: 931-296-8	
<b>Classification</b> Eye Dam. 1 - H318 Aquatic Chronic 3 - H412		

CITRIC ACID	5-10%	
CAS number: 5949-29-1	EC number: 201-069-1	
<b>Classification</b> Eye Irrit. 2 - H319		
GLUCONIC ACID	1-5%	
CAS number: 526-95-4	EC number: 208-401-4	
<b>Classification</b> Eye Irrit. 2 - H319		
1-DODECANOL	<1%	
CAS number: 112-53-8	EC number: 203-982-0	
M factor (Acute) = 1		
<b>Classification</b> Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411		
The full text for all hazard sta	atements is displayed in Section 16.	
Composition comments	To the best of our knowledge, all of the substances used in this product are being supported for the relevent application in REACH.	
SECTION 4: First aid measu	ires	
4.1. Description of first aid m	leasures	
General information	When it is safe to do so, remove victim immediately from source of exposure. However, consideration should be given as to whether moving the victim will cause further injury. For immediate First Aid advice in the UK, dial 111.	
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention.	
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IngestionDo not induce vomiting. Rinse mouth thoroughly with water. Place unconscious person on the<br/>side in the recovery position and ensure breathing can take place. Get medical attention.

 Skin contact
 Remove contaminated clothing that is not stuck to the skin. Flush area with clean water.

 Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Eye contactRemove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of<br/>water. Continue to rinse for at least 15 minutes and get medical attention.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General informationThe information given here relates to the neat chemical, dilutions may also cause chemical<br/>burns to skin and permanent eye damage.

InhalationToxic if inhaled. If mixed with Hypochlorite based products (Bleach) Chlorine Gas may be<br/>evolved, this can result in irritation to eyes and difficulty in breathing. If inhaled this may result<br/>in irritation to the mouth, nose and respiratory tract.

Ingestion	Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, chemical burning of mouth, throat and GI tract will occur. Similar but less severe symptoms will be seen if dilute chemical is ingested.
Skin contact	Causes severe burns.
Eye contact	Causes serious eye damage.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Contains Phosphoric Acid and Surfactants in Aqueous Solution. Rinse well with water to neutral pH.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.
5.2. Special hazards arising from	om the substance or mixture
Specific hazards	In contact with some metals (Aluminium, Zinc and their Alloys) Hydrogen Gas is formed, which may form an explosive mixture with air. Contact with Sodium Hypochlorite liberates toxic Chlorine Gas.
5.3. Advice for firefighters	
Protective actions during firefighting	Protective clothing and respiratory protection should be worn when tackling fires involving this product. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
6.2. Environmental precaution	S
Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Stop leak if possible without risk. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid Spillage or Run Off from entering Surface Water Drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Avoid the spillage or runoff entering drains, sewers or watercourses.
6.4. Reference to other section	
Reference to other sections	See sections 8,12 & 13
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
Usage precautions	Wear suitable protective equipment for prolonged exposure and/or high concentrations of
	vapours, spray or mist. Read and follow manufacturer's recommendations.

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

Storage precautions	Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Store between 0 and 40 Degrees C. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep away from chlorinated and alkaline products.
7.3. Specific end use(s)	
Specific end use(s)	Acidic Detergent, Descaler. Refer to Product Information Sheet for use instructions.
Usage description	This product is suitable for use in food and beverage processing plants, but it is not designed for direct food contact.

#### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

Occupational exposure limits

#### PHOSPHORIC ACID

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

#### 2-(2-BUTOXYETHOXY)ETHANOL

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m<sup>3</sup> WEL = Workplace Exposure Limit.

#### Ingredient comments

Where an exposure level is quoted, a risk assessment should consider if there is a need to monitor the atmosphere of the working environment. Results should be compared against the WEL and/or DNEL information provided. The Long Term WEL refers to total exposure of a worker to a specific substance averaged out over an 8 hour period.

The Short Term WEL refers to a single exposure of a worker to a specific substance over a 15 minute period.

If the Short Term WEL is exceeded and no Long Term Limit is set, further exposure during the working shift is not permitted. Further controls should be implemented to ensure that future exposure to the substance is reduced below the levels set before the activity is repeated/continued. Where no Short Term WEL exists, guidance from the HSE is to use a value of three times the Long Term WEL.

The WEL limits are laid down in the EH40 list as supplied by the HSE. Where a worker is exposed to levels approaching a limit, further exposure control measures should be considered to reduce exposure to the substance. DNEL and/or PNEC information is supplied by manufacturers of substances in accordance with REACH legislation (Regulation (EC) No 1907/2006), and is used to provide suitable risk reduction measures to limit exposure of the user of the substance to a non hazardous level. If the measured level of exposure by a route divided by the DNEL for the route is greater than 1, then further exposure controls should be implemented as described in section 8.2. Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

### PHOSPHORIC ACID (CAS: 7664-38-2)

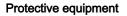
DNEL

Workers - Inhalation; Long term local effects: 1 mg/m<sup>3</sup> Workers - Inhalation; Short term local effects: 2 mg/m<sup>3</sup> Workers - Inhalation; Long term systemic effects: 10.7 mg/m<sup>3</sup> Consumer - Oral; Long term systemic effects: 0.1 mg/kg/day Consumer - Inhalation; Long term local effects: 0.36 mg/m<sup>3</sup> Consumer - Inhalation; Long term systemic effects: 4.57 mg/m<sup>3</sup>

#### 2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)

DNEL	Professional - Inhalation; Short term local effects: 14 ppm Professional - Dermal; Long term systemic effects: 20 mg/kg bw/day Professional - Inhalation; Long term systemic effects: 10 ppm Professional - Inhalation; Long term local effects: 10 ppm
PNEC	- Sediment (Marinewater); 0.4 mg/kg - marine water; 0.1 mg/l - STP; 200 mg/l - Sediment (Freshwater); 4 mg/l - Soil; 0.4 mg/l
	CITRIC ACID (CAS: 5949-29-1)
PNEC	- Fresh water; 0.44 mg/l - marine water; 0.044 mg/l - STP; >1000 mg/l - Sediment (Freshwater); 34.6 mg/kg - Sediment (Marinewater); 3.46 mg/kg - Soil; 33.1 mg/kg
	GLUCONIC ACID (CAS: 526-95-4)
DNEL	Professional - Dermal; Long term systemic effects: 11.9 mg/kg bw/day Professional - Inhalation; Long term systemic effects: 59 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 5.9 mg/kg bw/day General population - Inhalation; Long term systemic effects: 14.6 mg/m <sup>3</sup> General population - Oral; Long term systemic effects: 5.9 mg/kg bw/day
PNEC	<ul> <li>Fresh water; 0.1 mg/l</li> <li>marine water; 0.01 mg/l</li> <li>Intermittent release; 1 mg/l</li> <li>STP; 6.498 mg/l</li> <li>Sediment (Freshwater); 0.36 mg/kg</li> <li>marine water; 0.36 mg/kg</li> <li>Soil; 0.0135 mg/kg</li> </ul>
sure controls	

## 8.2. Exposure controls





Personal protection





The PPE indicated above is not a COSHH assessment. It represents PPE that should be considered during the manufacture, distribution, use and final disposal stages of this product's life cycle. It is the responsibility of employers to conduct a COSHH/risk assessment to determine appropriate PPE levels. The information given below should be used to support this assessment. Where possible replace manual processes with automated or closed processes to minimise contact with the product.

Eye/face protectionThe following protection should be worn: Full face visor or shield. Refer to EN Standard 166 to<br/>select appropriate level of protection.

Hand protectionRubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). Refer to Standard EN 374 and<br/>EN 16523 The expected use of this product is such that gloves with a breakthrough time of<br/>>60 minutes should be regarded as sufficient. Gloves should be inspected regularly for<br/>damage and replaced when necessary.

Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.
Hygiene measures	Provide eyewash station and safety shower. Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin. Contaminated clothing and shoes must be discarded.
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Recommended filter type ABEK-P2. Consult EN133 AND EN141.
Environmental exposure controls	Do not allow the substance to contaminate surface water/ground water. See points 6, 12 &13. Discharge of solutions into effluent systems (including municipal drains) or to surface water are expected to cause significant pH changes. Discharge of solutions should be carried out such that pH changes are minimised. Where necessary pH buffering measures should be adopted. Users of this product should consult local drainage and permitting authorities to ensure that any restrictions or discharge consents are adhered to.
General Health and Safety Measures.	In use solutions are likely to have extreme pH values and should be considered to be classified as H314. This should be considered when selecting control measures and PPE. Note mixing with Chlorinated Detergents or Disinfectants will result in the production of Toxic Chlorine Gas. A full Risk Assessment should be carried out before handling any chemical(s). Risk Assessments should refer to COSHH, and any other relevant legislation or industry specific guidelines governing the use of chemicals. We recommend full protective overalls, gloves and face protection when using this product.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Appearance	Clear liquid.	
Colour	Colourless to pale green.	
Odour	Slight pungent.	
Odour threshold	Not applicable.	
рН	pH (concentrated solution): <2 pH (diluted solution): 1 - 2 @ 1%	
Melting point	Not applicable.	
Initial boiling point and range	Not applicable.	
Flash point	Not applicable. Contains no Flammable Components	
Evaporation rate	Not applicable.	
Evaporation factor	Not applicable.	
Upper/lower flammability or explosive limits	Not applicable.	
Vapour pressure	Not applicable.	
Vapour density	Not applicable.	
Relative density	1.18 @ 20°C	
Bulk density	Not applicable.	
Solubility(ies)	Soluble in water.	
Partition coefficient	Not applicable. Technically not feasible.	

Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
Viscosity	Not determined.
Explosive properties	Not applicable.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not applicable. Does not meet the criteria for classification as oxidising.
9.2. Other information	
Refractive index	Not applicable.
Particle size	Not applicable.
Molecular weight	Not applicable.
Volatility	Not applicable.
Saturation concentration	Not applicable.
Critical temperature	Not applicable.
Volatile organic compound	Not applicable.
Explosive Properties	Not Classified as Explosive
Storage Temperature Range	0 to + 40 Degrees C
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	Not expected to react when correctly stored and used. Mixing with other chemicals may produce unexpected reactions. Stable under normal temperature conditions and recommended use. Avoid contact with caustic/alkaline material; this will generate heat and potentially corrosive vapour. Avoid contact with bleach and other hypochlorite based products; this will produce toxic Chlorine gas.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended See note 10.6.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Refer to section 10.1. Do not mix with Hypochlorite based chemicals, this will result in the generation of toxic chlorine gas.
10.4. Conditions to avoid	
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
10.5. Incompatible materials	
Materials to avoid	Contact with chlorinated products will liberate toxic chlorine gas.
10.6. Hazardous decomposition	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended See section 10.5.
SECTION 11: Toxicological int	formation

## 11.1. Information on toxicological effects

Respiratory sensitisation	
Respiratory sensitisation	No evidence of respiratory sensitisation for any component of this formulation.
Skin sensitisation	
Skin sensitisation	No evidence of skin sensitisation for any component of this formulation.
Carcinogenicity	The components of this formulation will not be systemically available in the body under normal conditions of handling. As a consequence it is not expected to cause cancer.
Reproductive toxicity	
Reproductive toxicity - fertility	The components of this formulation will not be systemically available in the body under normal conditions of use and handling. As a consequence it is not expected to be toxic to the reproductive system or developing foetus.
General information	See section 4.2.
Inhalation	Toxic if inhaled.
Ingestion	May cause chemical burns in mouth, oesophagus and stomach.
Skin contact	Causes burns.
Eye contact	Risk of serious damage to eyes. May cause permanent eye injury See section 4.2.
SECTION 12: Ecological infor	mation
Ecotoxicity	This product is not classified as hazardous to the environment. However it contains a component (or components) that is (are) classified as very toxic to the aquatic environment in their neat form. Normal use is unlikely to pose a risk to the environment.
12.1. Toxicity	
Acute aquatic toxicity	
Acute toxicity - fish	Normal use is unlikely to pose a hazard to the environment. See note 12.0. It is advisable to check discharge permits for Phosphate limitations.
12.2. Persistence and degrade	ability
Persistence and degradability	
12.3. Bioaccumulative potentia	al
Bioaccumulative potential	Not expected to bioaccumulate.
Partition coefficient	Not applicable. Technically not feasible.
12.4. Mobility in soil	
Mobility	The product contains substances which are water soluble and may spread in water systems.
12.5. Results of PBT and vPv	B assessment
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
12.6. Other adverse effects	
Other adverse effects	Not determined.
SECTION 13: Disposal consid	lerations

#### 13.1. Waste treatment methods

General information

When handling waste, the safety precautions applying to handling of the product should be considered. Do not mix with other chemicals. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

#### **SECTION 14: Transport information**

14.1. UN number	
UN No. (ADR/RID)	1805
UN No. (IMDG)	1805
UN No. (ICAO)	1805

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	PHOSPHORIC ACID, SOLUTION	
Proper shipping name (IMDG)	PHOSPHORIC ACID, SOLUTION	
Proper shipping name (ICAO)	PHOSPHORIC ACID, SOLUTION	
Proper shipping name (ADN)	PHOSPHORIC ACID, SOLUTION	
14.3. Transport hazard class(es)		
ADR/RID class	8	
ADR/RID label	8	
IMDG class	8	

8

## Transport labels

ICAO class/division



# 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	ш
ICAO packing group	

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user	
EmS	F-A, S-B
Emergency Action Code	2R
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

## Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
National regulations	UK Adoption and Implementation of the UN Globally Harmonised System (GHS) on Classification and Labelling of Chemicals (GB CLP) and considers UK National REACH legislation.	
EU legislation	European Regulation (EC) No 1272/2008 (as amended) on Classification, Labelling and Packaging of Substances and Mixtures. Also considered is the REACH Regulation (EC) No.1907/2006 (as amended).	

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<ul> <li>(EC) No. 1272/2008 : EU Regulation on Classification, Labelling and Packaging of Substances and Mixtures.</li> <li>NPIS - National Poisons Information Service.</li> <li>PBT - Persistent, Bioaccumulative &amp; Toxic.</li> <li>vPvB - Very Persistent, Very bioaccumulative.</li> <li>REACH - Registration, Evaluation, Authorisation &amp; restriction of CHemicals (Regulation EC 1907/2006).</li> <li>DNEL - Derived No Effect Limit.</li> <li>PNEC - Predicted No Effect Concentration.</li> <li>COSHH - Control of Substances Hazardous to Health.</li> <li>Industry - Refers in section 8 to application/use of the preparation/product in a skilled trade premises.</li> </ul>
General information	This document is a Safety Data Sheet, NOT a CoSHH assessment. It is the customer's responsibility to conduct a full CoSHH assessment, taking into account the information held within this document along with other local factors considered in a risk assessment. Only trained personnel should use this material. The Risk and Hazard statements listed below are the full text of abbreviations used in this document. They are not the final classification, for this refer to section 2.
Revision comments	Update to Section 8.1.
Revision date	24/06/2022
SDS number	26803
Hazard statements in full	<ul> <li>H290 May be corrosive to metals.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H400 Very toxic to aquatic life.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>

REACH extended MSDS comments

REACH requires that persons handling chemicals should take the necessary risk management measures, in accordance with assessments from manufacturers and importers of chemical substances. The relevent recommendations must be passed along the supply chain. These assessments are generally reported in Exposure Scenarios. Where Exposure Scenarios have been provided for substances used in this product, the relevent information is incorporated into the safety data sheet.

END OF SAFETY DATA SHEET

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.All composition information is based on suppliers data.