



## SAFETY SUMMARY

### 1. HAZARDS FOR HUMANS AND THE ENVIRONMENT.

Contains phosphoric acid (Phosphoric Acid).

**Signal word:**

Danger.

**Hazard statements:**

H314 - Causes severe skin burns and eye damage.

H290 - May be corrosive to metals.



### 2. PREVENTION AND CONDUCT.

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

#### Recommended safety measures for handling the undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

#### Personal protective equipment

**Eye / face protection:**

Safety glasses or goggles (EN166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature'

**Body protection:**

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur. (EN14605).

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental Exposure Controls:**

Should not reach sewage water or drainage e ditch undiluted or unneutralised.



#### Recommended Safety Measures For Handling The Diluted Product:

**Recommended maximum concentration (%):** 10

**Appropriate engineering controls:** Ensure that foam equipment does not generate respirable particles.

**Appropriate organisational controls:** No special requirements under normal use conditions.



#### Personal protective equipment

**Eye / face protection:**

Safety glasses or goggles (EN166) are always recommended for foam applications.

**Hand protection:**

Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Chemical-resistant protective gloves (EN 374) are always recommended for foam applications.

**Body protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:**

No special requirements under normal use conditions.

### 3. EMERGENCY PROCEDURES.

**Suitable extinguishing media:**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**Environmental precautions:**

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

**Methods for cleaning up:**

Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).



### 4. FIRST AID MEASURES.

**Inhalation:**

Get medical attention or advice if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.

**Eye contact:**

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:**

Rinse mouth. Immediately drink 1 glass of water. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.



*Always check the product labels and consult the Safety Data Sheet for details. The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.*



## PRODUCT INFORMATION

# ACIFOAM VF10

## Acidic foam cleaner-descaler

### Description

**Acifoam** is an acidic based foam cleaner designed for daily and periodic application in the food, beverage and dairy industries.

### Key properties

**Acifoam** is an acidic foam cleaner based on inorganic acid and a blend of high foaming wetting agents/emulsifiers. It is specially formulated for the removal of water hardness scale and other mineral deposits from food processing equipment and plant.

**Acifoam** is recommended for the periodic cleaning and descaling of high temperature processing equipment, such as cooking vessels, and also the exteriors of filler equipment, storage tanks, conveyors etc. It is also effective for daily application to break down protein deposits in the fishing industry.

**Acifoam** is suitable for use with a wide range of foam application equipment.

### Benefits

- Effective scale remover
- Foam application extends contact time with vertical surfaces
- Suitable for use on aluminium
- Free-rinsing

### Use instructions

Use **Acifoam** at concentrations between 3-10% v/v depending on the type and degree of soiling. For specific details please refer to individual method cards.

### Technical data

<b>Appearance:</b>	Clear, pale brown liquid
<b>Relative Density at 20°C:</b>	1.29
<b>pH (1% solution at 20°C):</b>	2.2
<b>Chemical Oxygen Demand (COD):</b>	200 gO <sub>2</sub> /kg
<b>Nitrogen Content (N):</b>	None
<b>Phosphorous Content (P):</b>	135 g/kg

The above data is typical of normal production and should not be taken as a specification.

### Safe handling and storage information

Store in original closed containers or (where applicable) in an approved bulk tank, away from extremes of temperatures. Full guidance on the handling and disposal of this product is provided in a separate Material Safety Data Sheet.

### Product compatibility

**Acifoam** is suitable for use on materials commonly found in the processed food industry, including soft metals such as aluminium, when applied at the recommended concentration and temperature. Always rinse surfaces thoroughly after use (within 1 hour). In the event of uncertainty it is advisable to evaluate individual materials before any prolonged use.

### Test method

Reagents:	0.1N Sodium hydroxide solution Phenolphthalein indicator
Procedure:	Add 100ml of water and 2 - 3 drops of indicator solution to 5ml of the test solution. Titrate with the sodium hydroxide to a permanent pink end point.
Calculation:	% v/v <b>Acifoam</b> = titre (ml) x 0.18 % w/v <b>Acifoam</b> = titre (ml) x 0.23 % w/w <b>Acifoam</b> = titre (ml) x 0.23

### Available pack sizes

Article code	Pack size
7509884	Bulk
5600021	20L
5600078	200L
7509873	900L



**SAFETY DATA SHEET**

According to Regulation (EC) No. 1907/2006

**ACIFOAM VF10**

Professional cleaning/maintenance product for food & beverage industries

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

**Product Name:** Acifoam VF10  
**Product Code:** MSDS1576  
**Supplier:** Hugh Crane (Cleaning Equipment) Ltd.  
South Walsham Road, Acle  
Norwich, NR13 3ES  
**Telephone:** (01493) 750072 Fax (01493) 751854  
**Emergency Telephone:** For medical or environmental emergency only: call 0800 052 0185

**Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against**

**Identified Uses:** For industrial use only  
AISE-P806 – Foam cleaner. Semi automatic with venting process  
AISE-P807 – Foam cleaner. Semi automatic without venting process.  
Soaking bath. Manual process (AISE\_CS\_I01 & AISE\_CS\_I10)  
**Uses advised against:** Uses other than those identified are not recommended

**2. HAZARDS IDENTIFICATION**

**Classification of The Substance Or Mixture**

Skin Corr. 1B (H314)  
Met. Corr. 1 (H290)

**Label Elements**



**Signal Word:** Danger.  
Contains phosphoric acid (Phosphoric Acid).  
**Hazard Statements:** H314 - Causes severe skin burns and eye damage  
H290 - May be corrosive to metals  
**Precautionary Statements:** P280 - Wear protective gloves, protective clothing and eye or face protection  
P303+361+353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTRE, doctor or physician  
**Other hazards:** No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Mixtures**

Ingredient(s)	EC No.	CAS No.	REACH No.	Classification	Notes	Weight %
Phosphoric acid	231-633-2	7664-38-2	01-2119485924-24	Skin Corr 1B (H314) Met Corr 1 (H290)		30 -50
Alkylbenzenesulphonic acid	287-494-3	85536-14-7	01-2111-9490234-40	Skin Corr 1B (H314) Acute Tox 4 (H302) Aquatic Chronic 3 (H412)		3 - 10
(2-methoxymethylethoxy) propanol	252-104-2	34590-94-8	01-2119450011-60	Not classified as hazardous.		3 - 10
Sodium cumenesulphonate	239-854-6	15763-76-5	01-2119489411-37	Eye Irrit 2A (H319)		1 - 3

\* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16. Workplace exposure limit(s), if available, are listed in subsection 8.1.  
[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required. [2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006. [3] Exempted: Annex V of Regulation (EC) No 1907/2006. [4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.



**4. FIRST AID MEASURES**

**Description of first aid measures**

**Inhalation:** Get medical attention or advice if you feel unwell.  
**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.  
**Eye contact:** Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.  
**Ingestion:** Rinse mouth. Immediately drink 1 glass of water. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.  
**Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.

**Most Important Symptoms And Effects, Both Acute And Delayed**

**Inhalation:** No known effects or symptoms in normal use.  
**Skin contact:** Causes severe burns.  
**Eye contact:** Causes severe or permanent damage.  
**Ingestion:** Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

**Indication of any immediate medical attention and special treatment needed**

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**5. FIRE FIGHTING MEASURES**

**Extinguishing media:** Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**Special hazards arising from the substance or mixture:** No special hazards known.

**Advice for firefighters:** As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment & emergency procedures:** Wear suitable protective clothing, gloves and eye/face protection.  
**Environmental precautions:** Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.  
**Methods and material for containment and cleaning up:** Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).  
**Reference to other sections:** For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

**7. HANDLING AND STORAGE**

**Precautions For Safe Handling**

**Measures to prevent fire and Explosions:** No special precautions required.  
**Measures required to protect the Environment:** For environmental exposure controls see subsection 8.2.  
**Advices on general occupational Hygiene:** Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Use only with adequate ventilation.  
**Conditions For Safe Storage, Including Any Incompatibilities:** Store in accordance with local and national regulations. Keep only in original container. Store in a closed container. For conditions and incompatible materials to avoid see section 10  
**Specific end use(s):** No specific advice for end use available

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Control parameters - Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
phosphoric acid	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
(2-methoxymethylethoxy) propanol	50 ppm ; 308mg/m <sup>3</sup>	150ppm ; 924 mg/m <sup>3</sup>



**Biological limit values, if available:**  
**Recommended monitoring procedures, if available:**  
**Additional exposure limits under the conditions of use, if available:**

**DNEL/DMEL and PNEC values**

**Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effects	Long term – Systemic effects
Phosphoric acid	-	-	-	-
Alkylbenzenesulphonic acid	-	-	-	0.85
(2-methoxymethylethoxy) propanol	-	-	-	1.67
Sodium cumenesulphonate	-	-	-	3.8

DNEL dermal exposure - Worker

Ingredient(s)	Short term – Local effects	Short term – Systemic effects (mg/kg bw)	Long term – Local effects	Long term – Systemic effects (mg/kg bw)
Phosphoric acid	No data available	-	No data available	-
Alkylbenzenesulphonic acid	-	-	-	170
(2-methoxymethylethoxy) propanol	No data available	-	No data available	65
Sodium cumenesulphonate	-	-	-	7.6

DNEL dermal exposure - Consumer

Ingredient(s)	Short term – Local effects	Short term – Systemic effects (mg/kg bw)	Long term – Local effects	Long term – Systemic effects (mg/kg bw)
Phosphoric acid	No data available	-	No data available	-
Alkylbenzenesulphonic acid	-	-	-	85
(2-methoxymethylethoxy) propanol	No data available	-	No data available	15
Sodium cumenesulphonate	-	-	-	3.8

DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effects	Long term – Systemic effects
Phosphoric acid	-	-	2.92	-
Alkylbenzenesulphonic acid	-	-	12	12
(2-methoxymethylethoxy) propanol	-	-	-	310
Sodium cumenesulphonate	-	-	-	3.8

DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effects	Long term – Systemic effects
Phosphoric acid	-	-	0.73	No data available
Alkylbenzenesulphonic acid	-	-	3	3
(2-methoxymethylethoxy) propanol	-	-	-	37.2
Sodium cumenesulphonate	-	-	-	13.2

**Environmental exposure**

Environmental exposure – PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
Phosphoric acid	-	-	-	-
Alkylbenzenesulphonic acid	0.278	0.0287	0.0167	3.43
(2-methoxymethylethoxy) propanol	19	1.9	190	4168
Sodium cumenesulphonate	0.23	-	2.3	100

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
Phosphoric acid	-	-	-	-
Alkylbenzenesulphonic acid	0.287	0.287	35	-
(2-methoxymethylethoxy) propanol	70.2	7.02	2.74	190
Sodium cumenesulphonate	-	-	-	-



### **Exposure controls**

The following information applies for the uses indicated in subsection 1.2. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the **undiluted** product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets.

**Appropriate engineering controls:**

If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

**Appropriate organisational controls:**

Avoid direct contact and/or splashes where possible. Train personnel.

### **Personal protective equipment**

**Eye / face protection:**

Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:

Material: butyl rubber  
Penetration time:  $\geq$  480 min  
Material thickness:  $\geq$  0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber  
Penetration time:  $\geq$  30 min  
Material thickness:  $\geq$  0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen

**Body protection:**

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur. (EN 14605).

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the **diluted** product:

**Recommended maximum concentration (%):** 10

**Appropriate engineering controls:** Ensure that foam equipment does not generate respirable particles.

**Appropriate organisational controls:** No special requirements under normal use conditions.

### **Personal protective equipment**

**Eye / face protection:**

Safety glasses or goggles (EN 166) are always recommended for foam applications.

**Hand protection:**

Chemical-resistant protective gloves (EN 374) are always recommended for foam applications. Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:

Material: butyl rubber  
Penetration time:  $\geq$  480 min  
Material thickness:  $\geq$  0.7 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen

**Body protection:**

No special requirements under normal use conditions.

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

## **9. PHYSICAL & CHEMICAL PROPERTIES**

### **Information on basic physical and chemical properties**

Information in this section refers to the product, unless it is specifically stated that substance data is listed.

**Physical State:**

Liquid

**Colour:**

Clear pale brown

**Odour:**

Product specific

**Odour Threshold:**

Not applicable

**Ph:**

<2 (neat)

**Boiling point/freezing point (°C):**

Not determined

Not relevant to classification of this product.

**Initial Boiling point/range (°C):**

Not determined



**Substance Data, Boiling Point**

Ingredient(s)	Value (°C)	Method	Atmospheric Pressure hPa)
Phosphoric acid	158	Method not given	1013
Alkylbenzenesulphonic acid	190	Method not given	
(2-methoxymethylethoxy) propanol	189.6	Method not given	1013
Sodium cumenesulphonate	No data available		

**Flash point (°C):** Not applicable.  
**Sustained Combustion:** Not applicable. (UN Manual of Tests & Criteria, Section 32, L2).  
**Evaporation Rate:** Not determined  
**Flammability (solid, gas):** Not determined  
**Upper/lower flammability limit %:** Not determined.

**Substance data, flammability or explosive limits if available.**

Ingredient(s)	Lower Limit (% Vol)	Upper Limit (% Vol)
(2-methoxymethylethoxy) propanol	1.1	14

**Vapour Pressure:** Not determined.

**Substance Data, Vapour Pressure**

Ingredient(s)	Value (Pa)	Method	Temperature °C
Phosphoric acid	4	Method not given	20
Alkylbenzenesulphonic acid	0.15	Method not given	20
(2-methoxymethylethoxy) propanol	5500	Method not given	20
Sodium cumenesulphonate	No data available		

**Vapour Density:** Not determined.  
**Relative Density:** Approx 1.29 g/cm<sup>3</sup> (20°C)  
**Solubility in / Miscibility with Water:** Fully miscible

**Substance Data, Solubility in Water**

Ingredient(s)	Value (g/l)	Method	Temperature °C
Phosphoric acid	Soluble		
Alkylbenzenesulphonic acid	>10	Method not given	20
(2-methoxymethylethoxy) propanol	Soluble	Method not given	20
Sodium cumenesulphonate	493 Soluble	Method not given	20

Substance Data, Partition Coefficient n-octanol/water (log Kow): see section 12.3

**Autoignition Temperature:** Not determined.  
**Decomposition Temperature:** Not applicable.  
**Viscosity:** Not determined.  
**Explosive properties:** Not explosive.  
**Oxidising properties:** Not oxidising.

**Other information**

**Surface Tension (N/m):** Not determined. Not relevant to classification of this product.  
**Corrosion To Metals:** Corrosive. Weight of evidence.

Substance Data, Dissociation Constant, if Available:

**10. STABILITY & REACTIVITY**

**Reactivity:** No reactivity hazards known under normal storage and use conditions.  
**Chemical stability:** Stable under normal storage and use conditions.  
**Possibility of hazardous reactions:** No hazardous reactions known under normal storage and use conditions.  
**Conditions to avoid:** None known under normal storage and use conditions.  
**Incompatible materials:** Reacts with alkali and metals. Keep away from products containing chlorine-based bleaching agents or sulphites.  
**Hazardous decomposition products:** None known under normal storage and use conditions.

**11. TOXICOLOGICAL INFORMATION**

**Information On Toxicological Effects**

Mixture data:



**Relevant calculated ATE(s)**

**ATE - Oral (mg/kg):** >5000

Substance data, where relevant and available, are listed below:

**Acute toxicity**

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure Time (h)
Phosphoric acid	LD <sub>50</sub>	2600	Rat	OECD 423 (EU B.1 tris)	
Alkylbenzenesulphonic acid	LD <sub>50</sub>	>1470	Rat	OECD 401 (EU B.1)	
(2-methoxymethylethoxy) propanol	LD <sub>50</sub>	>4000	Rat	Method not given	
Sodium cumenesulphonate	LD <sub>50</sub>	>7000	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure Time (h)
Phosphoric acid	LD <sub>50</sub>	2740	Rabbit	Method not given	
Alkylbenzenesulphonic acid	LD <sub>50</sub>	>2000	Rat	OECD 402 (EU B.3)	
(2-methoxymethylethoxy) propanol	LD <sub>50</sub>	9510	Rabbit	Method not given	
Sodium cumenesulphonate	LD <sub>50</sub>	>2000	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure Time (h)
Phosphoric acid	LC <sub>50</sub>	850	Rat	Method not given	2
Alkylbenzenesulphonic acid		No data available			
(2-methoxymethylethoxy) propanol	LC <sub>0</sub>	>1.667 (vapour) No mortality observed	Rat		7
Sodium cumenesulphonate	LC <sub>50</sub>	>5 (mist). No mortality observed	Rat	Read across	3.87

**Irritation and corrosivity**

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure Time (h)
Phosphoric acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
Alkylbenzenesulphonic acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
(2-methoxymethylethoxy) propanol	Not Irritant		Method not given	
Sodium cumenesulphonate	Not Irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure Time (h)
Phosphoric acid	Severe damage	Rabbit	Method not given	
Alkylbenzenesulphonic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	
(2-methoxymethylethoxy) propanol	Not corrosive or irritant		Method not given	
Sodium cumenesulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure Time (h)
Phosphoric acid	No data available			
Alkylbenzenesulphonic acid	No data available			
(2-methoxymethylethoxy) propanol	No data available			
Sodium cumenesulphonate	No data available			

**Sensitisation**

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure Time (h)
Phosphoric acid	Not sensitising	Human	Human experience	
Alkylbenzenesulphonic acid	Not sensitising	Guinea Pig	OECD 406 (EU B.6) / GPMT	
(2-methoxymethylethoxy) propanol	Not sensitising		Method not given	
Sodium cumenesulphonate	Not sensitising	Guinea Pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure Time (h)
Phosphoric acid	No data available			
Alkylbenzenesulphonic acid	No data available			
(2-methoxymethylethoxy) propanol	No data available			
Sodium cumenesulphonate	No data available			





**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
Phosphoric acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 , OECD 476 (Mouse lymphoma)	No data available	
Alkylbenzenesulphonic acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
(2-methoxymethylethoxy) propanol	No evidence for mutagenicity, negative test results	Method not given	No data available	
Sodium cumenesulphonate	No evidence for mutagenicity, negative test results	Method not given	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)

Carcinogenicity

Ingredient(s)	Effect
Phosphoric acid	No data available
Alkylbenzenesulphonic acid	No evidence for carcinogenicity; weight of evidence
(2-methoxymethylethoxy) propanol	No evidence for carcinogenicity; negative test results.
Sodium cumenesulphonate	No evidence for carcinogenicity; negative test results.

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific Effect	Value (mg/kg bw/d)	Species	Method	Exposure Time	Remarks & other effects reported
Phosphoric acid	NOAEL	Developmental toxicity	410	Rat	OECD 422, oral	10 days	No evidence for reproductive or developmental toxicity.
Alkylbenzenesulphonic acid	NOAEL	Teratogenic effects	300	Rat	Read across	20 days	
(2-methoxymethylethoxy) propanol			No data available				No evidence for reproductive toxicity
Sodium cumenesulphonate	NOAEL	Teratogenic effects	>936	Rat	Non guideline test		No known significant effects or critical hazards.

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time (days)	Specific effects & organs affected
Phosphoric acid	NOAEL	250	Rat	OECD 422, Oral		
Alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy) propanol		No data available				
Sodium cumenesulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)		No effects observed

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time (days)	Specific effects & organs affected
Phosphoric acid		No data available				
Alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy) propanol		No data available				
Sodium cumenesulphonate		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time (days)	Specific effects & organs affected
Phosphoric acid		No data available				
Alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy) propanol		No data available				
Sodium cumenesulphonate		No data available				



Chronic toxicity

Ingredient(s)	Exposure Route	End Point	Value (mg/kg bw/d)	Species	Method	Exposure Time	Specific effects & organs affected	Remark
Phosphoric acid			No data available					
Alkylbenzenesulphonic acid	Oral	NOAEL	85	Rat	Read across	9 mths		
(2-methoxymethylethoxy) propanol			No data available					
Sodium cumenesulphonate			No data available					

STOT – Single Exposure

Ingredient(s)	Affected Organs
Phosphoric acid	No data available
Alkylbenzenesulphonic acid	No data available
(2-methoxymethylethoxy) propanol	No data available
Sodium cumenesulphonate	Not applicable

STOT – Repeated Exposure

Ingredient(s)	Affected Organs
Phosphoric acid	No data available
Alkylbenzenesulphonic acid	No data available
(2-methoxymethylethoxy) propanol	No data available
Sodium cumenesulphonate	Not applicable

**Aspiration Hazard:**

Substances with an aspiration hazard (H304), if any, are listed in Section 3. If relevant, see Section 9 for dynamic viscosity and relative density of the product.

**Potential Adverse Health Effects And Symptoms:**

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

**12. ECOLOGICAL INFORMATION**

**Toxicity**

No test data is available on the mixture.  
Substance data, where relevant and available, are listed below

**Aquatic short-term toxicity**

Aquatic short-term toxicity – fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Phosphoric acid	LC <sub>50</sub>	138	Gambusia affinis	Method not given	96
Alkylbenzenesulphonic acid	LC <sub>50</sub>	1 - 10	Cyprinus carpio	OECD 203 (EU C.1)	96
(2-methoxymethylethoxy) propanol	LC <sub>50</sub>	>1000	Poecilia reticulata	Method not given	96
Sodium cumenesulphonate	LC <sub>50</sub>	>1000	Fish	EPA-OPPTS 850.1075	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Phosphoric acid	EC <sub>50</sub>	>100	Daphnia Magna Straus	OECD 202 (EU C.2)	48
Alkylbenzenesulphonic acid	EC <sub>50</sub>	1 - 10	Daphnia Magna Straus	OECD 202 (EU C.2)	48
(2-methoxymethylethoxy) propanol	EC <sub>50</sub>	1919	Daphnia Magna Straus	Method not given	48
Sodium cumenesulphonate	EC <sub>50</sub>	>450	Daphnia Magna Straus	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Phosphoric acid	EC <sub>50</sub>	>100	Desmodesmus Subspicatus	OECD 201 (EU C.3)	72
Alkylbenzenesulphonic acid	EC <sub>50</sub>	10 – 100	Desmodesmus Subspicatus	OECD 201 (EU C.3)	72
(2-methoxymethylethoxy) propanol	EC <sub>50</sub>	>969	Selenastrum Capricornutum	Method not given	72
Sodium cumenesulphonate	EC <sub>50</sub>	>230	Not specified	EPA OPPTS 850.5400	96

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Phosphoric acid		No data available			
Alkylbenzenesulphonic acid		No data available			
(2-methoxymethylethoxy) propanol		No data available			
Sodium cumenesulphonate		No data available			



Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time (h)
Phosphoric acid	EC <sub>50</sub>	270	Activated sludge	Method not given	
Alkylbenzenesulphonic acid		No data available			
(2-methoxymethylethoxy) propanol	EC <sub>10</sub>	4166	Pseudomonas Putida	Method not given	
Sodium cumenesulphonate	E <sub>r</sub> C <sub>50</sub>	>1000	Bacteria	OECD 209	3 hrs

**Aquatic long-term toxicity**

Aquatic long-term toxicity – fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects Observed
Phosphoric acid		No data available				
Alkylbenzenesulphonic acid	NOEC	0.1 – 1	Lepomis macrochirus	Read across	28 days	
(2-methoxymethylethoxy) propanol		No data available				
Sodium cumenesulphonate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects Observed
Phosphoric acid		No data available				
Alkylbenzenesulphonic acid	NOEC	1-10	Not specified	Read across	32 days	
(2-methoxymethylethoxy) propanol	NOEC	> 0.5	Daphnia Magna	Method not given	22 days	
Sodium cumenesulphonate		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time	Effects Observed
Phosphoric acid		No data available				
Alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy) propanol		No data available				
Sodium cumenesulphonate		No data available				

**Terrestrial Toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time	Effects Observed
Phosphoric acid		No data available				
Alkylbenzenesulphonic acid	LD <sub>50</sub>	>1000	Eisenia fetida	OECD 207	14 days	
(2-methoxymethylethoxy) propanol		No data available				
Sodium cumenesulphonate		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time	Effects Observed
Phosphoric acid		No data available				
Alkylbenzenesulphonic acid	EC <sub>50</sub>	167		OECD 208	21 days	
(2-methoxymethylethoxy) propanol		No data available				
Sodium cumenesulphonate		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time	Effects Observed
Phosphoric acid		No data available				
Alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy) propanol		No data available				
Sodium cumenesulphonate		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time	Effects Observed
Phosphoric acid		No data available				
Alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy) propanol		No data available				
Sodium cumenesulphonate		No data available				



Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time	Effects Observed
Phosphoric acid		No data available				
Alkylbenzenesulphonic acid		No data available				
(2-methoxymethylethoxy) propanol		No data available				
Sodium cumenesulphonate		No data available				

**Persistence and degradability**

**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half Life Time	Method	Evaluation	Remark
(2-methoxymethylethoxy) propanol	<1 day	Method not given	Rapidly photodegradable	

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
Phosphoric acid					Not applicable (inorganic substance)
Alkylbenzenesulphonic acid			94% in 28 days	OECD 301A	Readily biodegradable
(2-methoxymethylethoxy) propanol		Oxygen depletion	75% in 28 days	OECD 301F	Readily biodegradable
Sodium cumenesulphonate		CO2 production	103-109% in 28 days	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
Phosphoric acid	No data available		No bioaccumulation expected	
Alkylbenzenesulphonic acid	3.2	Method not given	Low potential for bioaccumulation	
(2-methoxymethylethoxy) propanol	1.01	Method not given	Low potential for bioaccumulation	
Sodium cumenesulphonate	-1.1	Method not given	No bioaccumulation expected.	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Phosphoric acid	No data available			No bioaccumulation expected	
Alkylbenzenesulphonic acid	2 – 500		Method not given	Low potential for bioaccumulation	
(2-methoxymethylethoxy) propanol	No data available				
Sodium cumenesulphonate	No data available				

**Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption Coefficient Log Koc(des)	Method	Soil / sediment type	Evaluation
Phosphoric acid	No data available				Potential for mobility in soil, soluble in water
Alkylbenzenesulphonic acid	No data available				Low mobility in soil
(2-methoxymethylethoxy) propanol	No data available				High potential for mobility in soil
Sodium cumenesulphonate	No data available				

**Results of PBT and vPvB assessment:** Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**Other adverse effects:** No other adverse effects known.

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Waste from residues/unused Products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.



**European Waste Catalogue:** 20 01 14\* - acids  
**Empty Packaging Recommendation:** Dispose of observing national or local regulations.  
**Suitable cleaning agents :** Water, if necessary with cleaning agent.

#### 14. TRANSPORT INFORMATION



##### Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

**UN number:** 1805  
**UN proper shipping name:** Phosphoric acid, solution  
**Transport hazard class(es)**  
**Class:** 8  
**Label(s):** 8  
**Packing group:** III

##### Environmental hazards

**Environmentally hazardous:** No  
**Marine pollutant:** No  
**Special precautions for user:** None known.  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** The product is not transported in bulk tankers.

##### Other Relevant Information

###### **ADR**

**Classification Code:** C1  
**Tunnel restriction code:** E  
**Hazard identification number:** 80

###### **IMO/IMDG**

**EmS:** F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

#### 15. REGULATORY INFORMATION

##### Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

**EU regulations:**

- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No. 648/2004 - Detergents regulation

**Authorisations or Restrictions (Regulation [EC] No 1907/2006, Title VII Respectively Title VIII):** Not applicable

##### Ingredients according to EC Detergents Regulation 648/2004

anionic surfactants, < 5%

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Chemical safety assessment:** A chemical safety assessment has not been carried out on the mixture

#### 16. OTHER INFORMATION

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.*

**MSDS Code:** MSDS1576  
**Revision Date:** 25<sup>th</sup> January 2018.

**Reason for revision:** This data sheet contains changes from the previous version.



# HUGH CRANE

— Cleaning Equipment Limited —

South Walsham Road, Acle, Norwich NR13 3ES

Telephone: 01493 750072 Fax: 01493 751854

Email: [sales@hughcrane.co.uk](mailto:sales@hughcrane.co.uk)

Website: [www.hughcrane.co.uk](http://www.hughcrane.co.uk)

Acifoam VF10 Page 14 of 14

SDS Revision Date 25/01/2018

SS Revision Date 24/12/2017

Print Date 05/04/2018

**Classification procedure:**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the R, H and EUH phrases mentioned in section 3:**

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

AISE	The international Association for Soaps, Detergents and Maintenance Products
DNEL	Derived No Effect Limit
EUH	CLP Specific hazard statement
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH number	REACH registration number, without supplier
vPvB	very Poisonous very Bioaccumulative.
ATE	Acute Toxicity Estimate.

**End of Safety Data Sheet**