



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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BONDERITE C-IC AL-85 ACID CLEANER known as NOVACLEAN  
AL 85 B30

SDS No. : 151413  
V005.0

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

BONDERITE C-IC AL-85 ACID CLEANER known as NOVACLEAN AL 85 B30

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

Intended use:

Cleaners for industrial metal working

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

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: [technical.services@henkel.co.uk](mailto:technical.services@henkel.co.uk)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Corrosive to metals

Category 1

H290 May be corrosive to metals.

Skin corrosion

Category 1B

H314 Causes severe skin burns and eye damage.

Serious eye damage

Category 1

H318 Causes serious eye damage.

#### 2.2. Label elements

##### Label elements (CLP):

**Hazard pictogram:**



**Contains**

Phosphoric acid

**Signal word:**

Danger

**Hazard statement:**

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

**Precautionary statement:  
Prevention**

P260 Do not breathe mist/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement:  
Response**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 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 CENTER or doctor.

### 2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

**Following substances are present in a concentration  $\geq 0,1\%$  and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

This mixture does not contain any substances in concentration  $\geq$  the concentration limit that are assessed to be a PBT, vPvB or ED.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Phosphoric acid 7664-38-2 231-633-2 01-2119485924-24	20- 43 %	Met. Corr. 1, H290 Skin Corr. 1B, H314 Acute Tox. 4, Oral, H302	Skin Corr. 1B; H314; C >= 25 % Eye Irrit. 2; H319; C 10 - < 25 % Skin Irrit. 2; H315; C 10 - < 25 % ===== oral:ATE = 1.500 mg/kg	EU OEL
Fatty alcohol, C16-18, ethoxylate 61791-28-4 01-2120119368-54	1- < 5 %	Eye Irrit. 2, H319		
Fatty alcohol, C13-15, ethoxylate 64425-86-1	1- 4 %	Acute Tox. 4, Oral, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412	oral:ATE = 500 mg/kg	
Alcohol C13, branched ethoxylated 69011-36-5 500-241-6	1- < 4 %	Acute Tox. 4, Oral, H302 Eye Dam. 1, H318	oral:ATE = 500 mg/kg	
p-toluenesulphonic acid, (containing more than 5 % H2SO4) 104-15-4 203-180-0	1- < 3 %	Skin Corr. 1B, H314 Acute Tox. 4, Oral, H302	Skin Corr. 1B; H314; C >= 25 % Skin Irrit. 2; H315; C 10 - < 25 % % Eye Irrit. 2; H319; C 10 - < 25 %	
Fatty alcohol ethoxylate C13 69011-36-5	0,1- < 1,5 %	Eye Dam. 1, H318 Acute Tox. 4, Oral, H302	oral:ATE = 500 mg/kg	

For full text of the H - statements and other abbreviations see section 16 "Other information".

Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to Detergent Regulation 648/2004/EC

> 30 % phosphates  
5 - 15 % non-ionic surfactants

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Move to fresh air, consult doctor if complaint persists.

#### Skin contact:

Immediately rinse with copious amounts of running water (for 10 minutes). Remove contaminated clothes. Put on a bandage with sterile gauze, seek medical attention in hospital.

#### Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

#### Ingestion:

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.  
Immediate medical treatment necessary.

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

Causes burns.

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

See section: Description of first aid measures

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Carbon dioxide, foam, powder  
Water spray jet

##### Extinguishing media which must not be used for safety reasons:

High pressure waterjet

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

Formation of toxic gases is possible during heating or in fires.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.  
Wear protective equipment.

##### Additional information:

Cool endangered containers with water spray jet.

### SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes.  
Danger of slipping on spilled product.

#### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

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

Neutralize with acid-binding material (e.g. powdered limestone).  
Take up with liquid-absorbing material (sand).  
Dispose of contaminated material as waste according to Section 13.

#### 6.4. Reference to other sections

See advice in section 8

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

When diluting, always stir slowly the product into standing water.  
Avoid skin and eye contact.  
Ensure that workrooms are adequately ventilated.  
See advice in section 8

##### Hygiene measures:

Wash hands before work breaks and after finishing work.  
Do not eat, drink or smoke while working.  
Wash contaminated clothing before reuse.  
The workplace should be equipped with an emergency shower and eye-rinsing facility.

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

Must be stored in a room with spill collection facilities.  
Store in a cool place in closed original container.  
Do not use packing made of metal.  
Keep only in original container.  
Do not store together with highly alkaline products.  
Do not store together with oxidants.

**7.3. Specific end use(s)**

Cleaners for industrial metal working

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational Exposure Limits**

Valid for  
Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		1	Time Weighted Average (TWA):		EH40 WEL
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		2	Short Term Exposure Limit (STEL):	Indicative	ECLTV
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		1	Time Weighted Average (TWA):	Indicative	ECLTV
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		2	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

**Occupational Exposure Limits**

Valid for  
Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		1	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		2	Short Term Exposure Limit (STEL):	Indicative	ECLTV
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		1	Time Weighted Average (TWA):	Indicative	ECLTV
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		2	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
phosphoric acid 7664-38-2	sediment (freshwater)						no hazard identified
phosphoric acid 7664-38-2	sediment (marine water)						no hazard identified
phosphoric acid 7664-38-2	Air						no hazard identified
phosphoric acid 7664-38-2	Soil						no hazard identified
phosphoric acid 7664-38-2	Predator						no potential for bioaccumulation

**Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
phosphoric acid 7664-38-2	Workers	inhalation	Long term exposure - systemic effects		10,7 mg/m <sup>3</sup>	no hazard identified
phosphoric acid 7664-38-2	General population	inhalation	Long term exposure - systemic effects		4,57 mg/m <sup>3</sup>	no hazard identified
phosphoric acid 7664-38-2	General population	inhalation	Long term exposure - local effects		0,36 mg/m <sup>3</sup>	no hazard identified
phosphoric acid 7664-38-2	General population	oral	Long term exposure - systemic effects		0,1 mg/kg	no hazard identified
phosphoric acid 7664-38-2	Workers	inhalation	Long term exposure - local effects		1 mg/m <sup>3</sup>	no hazard identified
phosphoric acid 7664-38-2	Workers	inhalation	Acute/short term exposure - local effects		2 mg/m <sup>3</sup>	no hazard identified

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

## Engineering controls:

Ensure good ventilation/suction at the workplace.

## Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

## Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR;  $\geq$  1 mm thickness) or natural rubber (NR;  $\geq$  1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR;  $\geq$  1 mm thickness) or natural rubber (NR;  $\geq$  1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

## Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

## Skin protection:

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

## Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	liquid
Delivery form	liquid
Colour	colourless, up to, slightly yellowish
Odor	odourless
Melting point	Not applicable, Product is a liquid
Initial boiling point	> 100 °C (> 212 °F)no method Aqueous solution
Flammability	Not applicable Aqueous solution
Explosive limits	Not applicable, Aqueous solution
Flash point	> 100 °C (> 212 °F)
Auto-ignition temperature	Not applicable, Aqueous solution
Decomposition temperature	Currently under determination
pH	1,4 - 2,0 PH-value, potentiometer
(20 °C (68 °F); Conc.: 1 % product; Solvent: Demineralised water)	
Viscosity (kinematic)	0,8 - 5 mm <sup>2</sup> /s
(40 °C (104 °F); )	
Solubility (qualitative)	fully miscible
(20 °C (68 °F); Solvent: Water)	
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure	23 hPa Values referring to water
(20 °C (68 °F))	
Vapour pressure	124 hPa Values referring to water
(50 °C (122 °F))	
Density	1,280 - 1,300 g/cm <sup>3</sup> Density, oscillation
(20 °C (68 °F))	
Relative vapour density:	< 1
(20 °C)	
Particle characteristics	Not applicable Product is a liquid

## 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reaction with strong bases

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

No decomposition if used according to specifications.

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

None if used for intended purpose.

In case of fire toxic gases can be released.

**SECTION 11: Toxicological information****1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Phosphoric acid 7664-38-2	Acute toxicity estimate (ATE)	1.500 mg/kg		Expert judgement
Fatty alcohol, C16-18, ethoxylate 61791-28-4	LD50	> 5.000 mg/kg	rat	BASF Test
Fatty alcohol, C13-15, ethoxylate 64425-86-1	LD50	> 300 - < 2.000 mg/kg	rat	not specified
Fatty alcohol, C13-15, ethoxylate 64425-86-1	Acute toxicity estimate (ATE)	500 mg/kg		Expert judgement
Alcohol C13, branched ethoxylated 69011-36-5	Acute toxicity estimate (ATE)	500 mg/kg		Expert judgement
Alcohol C13, branched ethoxylated 69011-36-5	LD50	500 - 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
p-toluenesulphonic acid, (containing more than 5 % H2SO4) 104-15-4	LD50	1.410 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Fatty alcohol ethoxylate C13 69011-36-5	Acute toxicity estimate (ATE)	500 mg/kg		Expert judgement
Fatty alcohol ethoxylate C13 69011-36-5	LD50	500 - 2.000 mg/kg	rat	not specified

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Alcohol C13, branched ethoxylated 69011-36-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Fatty alcohol ethoxylate C13 69011-36-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)



**Acute inhalative toxicity:**

No data available.

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Phosphoric acid 7664-38-2	corrosive	24 h	rabbit	not specified
Fatty alcohol, C13-15, ethoxylate 64425-86-1	not irritating		rabbit	not specified
Fatty alcohol ethoxylate C13 69011-36-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Fatty alcohol, C13-15, ethoxylate 64425-86-1	Category 1 (irreversible effects on the eye)		rabbit	not specified

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
p-toluenesulphonic acid, (containing more than 5 % H <sub>2</sub> SO <sub>4</sub> ) 104-15-4	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Fatty alcohol ethoxylate C13 69011-36-5	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Phosphoric acid 7664-38-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Phosphoric acid 7664-38-2	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Phosphoric acid 7664-38-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
p-toluenesulphonic acid, (containing more than 5 % H <sub>2</sub> SO <sub>4</sub> ) 104-15-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Fatty alcohol ethoxylate C13 69011-36-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Fatty alcohol ethoxylate C13 69011-36-5	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Fatty alcohol ethoxylate C13 69011-36-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Phosphoric acid 7664-38-2	NOAEL P 500 mg/kg NOAEL F1 500 mg/kg	one- generation study	oral: gavage	rat	OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)
Fatty alcohol ethoxylate C13 69011-36-5	NOAEL P >= 250 mg/kg NOAEL F1 >= 250 mg/kg NOAEL F2 >= 250 mg/kg	Two generation study	dermal	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

<b>Hazardous substances CAS-No.</b>	<b>Result / Value</b>	<b>Route of application</b>	<b>Exposure time / Frequency of treatment</b>	<b>Species</b>	<b>Method</b>
Phosphoric acid 7664-38-2	NOAEL 250 mg/kg	oral: gavage	6 w daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Fatty alcohol ethoxylate C13 69011-36-5	NOAEL >= 500 mg/kg	oral: feed	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

**SECTION 12: Ecological information****General ecological information:**

Locally harmful for aquatic and landliving organisms because of low pH and corrosive properties.

Do not empty into drains / surface water / ground water.

The biodegradability of the surfactants contained in the product is in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).

The surfactants contained in the products are primary biodegradable to at least 90% on average.

**12.1. Toxicity****Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Phosphoric acid 7664-38-2	LC50	> 100 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Fatty alcohol, C16-18, ethoxylate 61791-28-4	LC50	0,464 - 1 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Fatty alcohol, C13-15, ethoxylate 64425-86-1	LC50	4,1 mg/l	48 h	Leuciscus idus	DIN 38412-15
Alcohol C13, branched ethoxylated 69011-36-5	LC50	> 4 - 10 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
p-toluenesulphonic acid, (containing more than 5 % H2SO4) 104-15-4	LC50	> 500 mg/l	96 h	Leuciscus idus melanotus	DIN 38412-15
Fatty alcohol ethoxylate C13 69011-36-5	LC50	10 mg/l			OECD Guideline 203 (Fish, Acute Toxicity Test)

**Toxicity (Daphnia):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Phosphoric acid 7664-38-2	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Fatty alcohol, C16-18, ethoxylate 61791-28-4	EC50	66,7 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Fatty alcohol, C13-15, ethoxylate 64425-86-1	EC50	7 mg/l	24 h	Daphnia magna	not specified
Alcohol C13, branched ethoxylated 69011-36-5	EC50	4,5 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
p-toluenesulphonic acid, (containing more than 5 % H2SO4) 104-15-4	EC50	> 1.500 mg/l	24 h	Daphnia magna	not specified
Fatty alcohol ethoxylate C13 69011-36-5	EC50	4 - 15 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

**Chronic toxicity to aquatic invertebrates**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Fatty alcohol, C13-15, ethoxylate 64425-86-1	NOEC	> 0,1 - 1 mg/l		Daphnia magna	other guideline:

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Phosphoric acid 7664-38-2	EC50	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphoric acid 7664-38-2	NOEC	100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty alcohol, C16-18, ethoxylate 61791-28-4	EC50	> 100 mg/l	72 h		OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty alcohol, C13-15, ethoxylate 64425-86-1	EC50	> 1 - 10 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohol C13, branched ethoxylated 69011-36-5	EC50	9,7 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty alcohol ethoxylate C13 69011-36-5	EC50	5 - 10 mg/l	96 h		OECD Guideline 201 (Alga, Growth Inhibition Test)

**Toxicity to microorganisms**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Phosphoric acid 7664-38-2	IC50	270 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Fatty alcohol, C13-15, ethoxylate 64425-86-1	EC0	1.000 mg/l	30 min	not specified	not specified
Alcohol C13, branched ethoxylated 69011-36-5	EC0	> 4 - 10 mg/l		not specified	not specified

**12.2. Persistence and degradability**

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Fatty alcohol, C16-18, ethoxylate 61791-28-4	readily biodegradable		> 70 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Fatty alcohol, C13-15, ethoxylate 64425-86-1	readily biodegradable	aerobic	> 70 %		OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
Alcohol C13, branched ethoxylated 69011-36-5	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
p-toluenesulphonic acid, (containing more than 5 % H2SO4) 104-15-4	inherently biodegradable	aerobic	94 %	20 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
p-toluenesulphonic acid, (containing more than 5 % H2SO4) 104-15-4	readily biodegradable	aerobic	> 60 %	28 d	OECD 301 A - F
Fatty alcohol ethoxylate C13 69011-36-5	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

Hazardous substances CAS-No.	LogPow	Temperature	Method
p-toluenesulphonic acid, (containing more than 5 % H2SO4) 104-15-4	-0,62		not specified

#### 12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
Phosphoric acid 7664-38-2	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Fatty alcohol, C16-18, ethoxylate 61791-28-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Fatty alcohol, C13-15, ethoxylate 64425-86-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

060104

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

**SECTION 14: Transport information**

**14.1. UN number or ID number**

ADR	1760
RID	1760
ADN	1760
IMDG	1760
IATA	1760

**14.2. UN proper shipping name**

ADR	CORROSIVE LIQUID, N.O.S. (Phosphoric acid,Toluene sulfonic acid)
RID	CORROSIVE LIQUID, N.O.S. (Phosphoric acid,Toluene sulfonic acid)
ADN	CORROSIVE LIQUID, N.O.S. (Phosphoric acid,Toluene sulfonic acid)
IMDG	CORROSIVE LIQUID, N.O.S. (Phosphoric acid,Toluene sulfonic acid)
IATA	Corrosive liquid, n.o.s. (Phosphoric acid,Toluene sulfonic acid)

**14.3. Transport hazard class(es)**

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

**14.4. Packing group**

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

**14.5. Environmental hazards**

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

**14.6. Special precautions for user**

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	IMDG-Code: Segregation group 1- Acids
IATA	not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information**

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	0 %

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

### National regulations/information (Great Britain):

Remarks	Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, e.g COSHH Essentials. EH40 Occupational Exposure Limits Chemicals (Hazard Information & Packaging for Supply) Regulations. The Personnel Protective Equipment at Work Regulations. The Carriage of Dangerous Goods by Road Regulations. The Health & Safety at Work Act 1974. (Note: Use latest editions/amendments of above referenced documents.)
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## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2:	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

### Further information:

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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