

**Safety data sheet**  
According to 1907/2006/EC, Article 31 REACH

Printing date 15.02.2018

Version: 3

Revision: 15.02.2018

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

· **1.1 Product identifier**

· Trade name: **FS BIOANPHOTIC-CLP**

· Article number: 93920001

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

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC35 Washing and cleaning products (including solvent based products)

· **Application of the substance / the mixture** Alkaline cleaner/ detergent

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

ZEP UK Ltd  
Tanhouse Lane  
Widnes Cheshire, WA8 0RR  
United Kingdom  
Tel: +44 (0)151 422 1000  
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@: info@zep.co.uk  
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ZEP Industries BV  
Vierlinghweg 30  
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Tel: (NL) + 31 164 250 100 (B) + 32 2 347 0117  
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Tel: +39.06.926691  
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· **Further information obtainable from:**

Customer Service  
NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710  
B: Tel: +32 2 347 0117 Fax: +32 2 347 1395  
IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61  
UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

· **1.4 Emergency telephone number:**

Customer Service  
NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710  
B: Tel: +32 2 347 0117 Fax: +32 2 347 1395  
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UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

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### Hazard pictograms



GHS05

### Signal word Danger

#### Hazard-determining components of labelling:

Amines, N-C12-14(even numbered)-alkyltrimethylenedi-,  
reaction products with chloroacetic acid  
Alcohols, C10-12, ethoxylated propoxylated

#### Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

#### Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

#### Additional information:

Contains A mixture of tetrasodium-phosphonoethane-1,2-dicarboxylate and hexasodium-phosphonobutane-1,2,3,4-tetracarboxylate. May produce an allergic reaction.

#### 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

#### Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterisation: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 66455-29-6 EINECS: 266-368-1	Alkyl dimethyl betaine ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	5-10%
CAS: 139734-65-9	Amines, N-C12-14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid ⚠ Skin Corr. 1B, H314 ⚠ Aquatic Acute 1, H400 ⚠ Acute Tox. 4, H302	2.5-5%
CAS: 111-46-6 EINECS: 203-872-2 Reg.nr.: 01-2119457857-21-xxxx	2,2'-oxybisethanol ⚠ Acute Tox. 4, H302	1-2.5%
CAS: 68154-97-2	Alcohols, C10-12, ethoxylated propoxylated ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302	1-2.5%
CAS: 143239-08-1 ELINCS: 410-800-5	A mixture of tetrasodium-phosphonoethane-1,2-dicarboxylate and hexasodium-phosphonobutane-1,2,3,4-tetracarboxylate ⚠ Aquatic Chronic 2, H411 ⚠ Skin Sens. 1, H317	0.1-1%

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

For the wording of the listed hazard phrases refer to section 16.

Amphoteric surfactants	≥5 - <15%
Nonionic surfactants	<5%

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### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.  
Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, universal binders).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

#### 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

111-46-6 2,2'-oxybisethanol (1-2.5%)
--------------------------------------

WEL (Great Britain) Long-term value: 101 mg/m <sup>3</sup> , 23 ppm
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- **Additional information:** The lists valid during the making were used as basis.

#### 8.2 Exposure controls

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.

- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

Rubber gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Rubber gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- **Not suitable are gloves made of the following materials:** Strong material gloves
- **Eye protection:**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not determined.

- **pH-value at 20 °C:** 9

- **Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	>100 °C

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Not applicable.

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

- **Vapour pressure at 20 °C:** 23 hPa

<b>Density at 20 °C:</b>	1.01 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

- **Solubility in / Miscibility with water:** Fully miscible.

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- |  |  |
|--|--|
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |  |
| · <b>Dynamic:</b>                                | Not determined.                            |
| · <b>Kinematic:</b>                              | Not determined.                            |
| · <b>Solvent content:</b>                        |  |
| · <b>Organic solvents:</b>                       | 2.2 %                                      |
| · <b>Swiss VOC:</b>                              | 0.00 %                                     |
| · <b>Solids content:</b>                         | 0.5 %                                      |
| · <b>9.2 Other information</b>                   | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**111-46-6 2,2'-oxybisethanol**

Oral	LD50	12,565 mg/kg (Rat)
Dermal	LD50	11,890 mg/kg (Rabbit)

**68154-97-2 Alcohols, C10-12, ethoxylated propoxylated**

Oral	LD50	940 mg/kg (Rat)
	EC50 / 24 h	12 mg/ltr (Daphnia magna (water flea))

**143239-08-1 A mixture of tetrasodium-phosphonoethane-1,2-dicarboxylate and hexasodium-phosphonobutane-1,2,3,4-tetracarboxylate**

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
	LC50 / 96 h (static)	>100 mg/ltr (Oncorhynchus mykiss (Rainbow trout))
	EC 50 / 48 h (static)	>1,000 mg/ltr (Daphnia magna (water flea))

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

68154-97-2 Alcohols, C10-12, ethoxylated propoxylated

OECD test 302 B 93 (biodegradation in % after 28 days)

#### · 12.2 Persistence and degradability

No further relevant information available.

#### · Other information:

The product is biodegradable.

#### · 12.3 Bioaccumulative potential

No further relevant information available.

#### · 12.4 Mobility in soil

No further relevant information available.

#### · Additional ecological information:

##### · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.

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

##### · PBT:

Not applicable.

##### · vPvB:

Not applicable.

#### · 12.6 Other adverse effects

No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Disposal must be made according to official regulations

##### · Uncleaned packaging:

##### · Recommendation:

Disposal must be made according to official regulations.

### SECTION 14: Transport information

#### · 14.1 UN-Number

##### · ADR, ADN, IMDG, IATA

Void

#### · 14.2 UN proper shipping name

##### · ADR, ADN, IMDG, IATA

Void

#### · 14.3 Transport hazard class(es)

##### · ADR, ADN, IMDG, IATA

##### · Class

Void

#### · 14.4 Packing group

##### · ADR, IMDG, IATA

Void

#### · 14.5 Environmental hazards:

##### · Marine pollutant:

No

#### · 14.6 Special precautions for user

Not applicable.

#### · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

#### · UN "Model Regulation":

Void

### SECTION 15: Regulatory information

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

Reg. (EC) n. 1272/2008 - CLP;

Reg. (EC) n. 1907/2006 - Reach;

Reg. (EC) n. 2015/830 annex II of REACH;

Reg. (EC) n. 648/04 (Detergents);

Reg. (EC) n. 528/12 (Biocides BPR);

Reg. (EC) n. 1223/2009 (Cosmetics);

Dir. 06/08 ADR - RID - IMDG - IATA;

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Dir. 47/08 (Aerosols); Dir. 12/18 (Seveso III);  
Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

- Directive 2012/18/EU
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	1-2.5

- **Waterhazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

· **Department issuing SDS:**

Customer Service  
NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710  
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UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **\* Data compared to the previous version altered.**