

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

**BELFASIN OZK tr**

**DRP0120TR**

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

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

### 1.1 Product identifier

Trade name : BELFASIN OZK tr                      DRP0120TR  
Product code : 000000000000008598

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

Use of the Sub- : Textile auxiliary  
stance/Mixture

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

Company : Pulcra Kimya Sanayi ve Ticaret A.S.  
Beylikbağı Mahallesi 341 Sokak No:1  
41410 Gebze  
Turkey

Telephone : +90-2626754200  
Responsible/issuing person : MSDS-TR@pulcrachem.com

### 1.4 Emergency telephone number

Telephone : +90-2626754404  
: WHO Directory of poison centres  
www.who.int/ipcs/poisons/centre/en/

---

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

## BELFASIN OZK tr

## DRP0120TR

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

Hazard statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.

### Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6](3:1)

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous mixture of: Quaternised alkanolamine esters

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number Index-No.	Classification	Concentration (% w/w)
Imidazolium compounds, 4,5-dihydro-1-methyl-2-nortallow alkyl-3-(2-tallow amidoethyl), Me sulfates	86088-85-9 289-151-3	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	>= 10 - < 20
Fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	91995-81-2 295-344-3	Skin Irrit. 2; H315	>= 1 - < 5
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6](3:1)	55965-84-9 613-167-00-5	Acute Tox. 2; H330 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 0,0015 - < 0,06

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

**BELFASIN OZK tr**

**DRP0120TR**

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

		H410 M factor (acute) = 100 M factor (chronic) = 10	
--	--	---	--

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : If you feel unwell, seek medical advice (show the label where possible).  
Show this safety data sheet to the doctor in attendance.  
Take off contaminated clothing and shoes immediately.
- If inhaled : Move to fresh air.  
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Obtain medical attention.
- In case of skin contact : Wash with plenty of soap and water.  
Cover wound with sterile dressing.  
If symptoms persist, call a physician.
- In case of eye contact : If easy to do, remove contact lens, if worn.  
Rinse immediately with plenty of water, also under the eyelids.  
Get medical attention immediately.
- If swallowed : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
If a person vomits when lying on his back, place him in the recovery position.

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

- Symptoms : No information available.

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

- Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Product is compatible with standard fire-fighting agents.

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

- Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.  
Hazardous decomposition products formed under fire conditions.  
Exposure to decomposition products may be a hazard to health.

**BELFASIN OZK tr****DRP0120TR**Version  
1.2Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
In the event of fire and/or explosion do not breathe fumes.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

---

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Remove all sources of ignition.

**6.2 Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.  
Clean contaminated surface thoroughly.

**6.4 Reference to other sections**

---

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8.  
Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Avoid contact with skin, eyes and clothing.  
When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

## BELFASIN OZK tr

## DRP0120TR

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

Wash contaminated clothing before re-use.

Dust explosion class : Not applicable

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

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep away from heat and sources of ignition.

Advice on common storage : Keep away from food and drink.  
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

No data available

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

No data available

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Goggles

Hand protection

Material : Protective gloves complying with EN 374.

Remarks

: Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.  
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Skin and body protection

: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

: In case of inadequate ventilation wear respiratory protection.  
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.  
Suitable respiratory equipment:  
Respirator with combination filter for vapour/particulate (EN

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

**BELFASIN OZK tr**

**DRP0120TR**

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

141)  
See information supplied by the manufacturer.

---

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: beige
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: emulsifiable
Partition coefficient: n-octanol/water	: No data available
Self-ignition	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## BELFASIN OZK tr

## DRP0120TR

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

### 9.2 Other information

Dust explosion class : Not applicable

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

Conditions to avoid : Protect from contamination.  
Oxidizing material can cause a reaction.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50: > 2.000 mg/kg

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

##### Components:

**Fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfat-quaternized:**

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: No information available.

Acute dermal toxicity : LD0 (Rat): >= 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

## BELFASIN OZK tr

## DRP0120TR

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

**reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6](3:1):**

Acute oral toxicity : Acute toxicity estimate: 300 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 0,5 mg/l  
Test atmosphere: vapour

Acute dermal toxicity : Acute toxicity estimate: 300 mg/kg

### Skin corrosion/irritation

#### Product:

No skin irritation

#### Components:

**Fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Species: Rabbit

Assessment: No skin irritation

Method: OECD Test Guideline 404

Result: Mild skin irritation

GLP: yes

Species: Rabbit

Exposure time: 4 h

Assessment: No skin irritation

Method: OECD Test Guideline 404

Result: Mild skin irritation

GLP: yes

Species: Rabbit

Assessment: Mild skin irritation

Method: OECD Test Guideline 404

Result: Mild skin irritation

GLP: yes

**reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6](3:1):**

Species: Rabbit

Exposure time: 4 h

Assessment: Causes severe skin burns and eye damage.

Method: OECD Test Guideline 404

Result: Corrosive

GLP: yes

### Serious eye damage/eye irritation

#### Product:

No eye irritation



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

## BELFASIN OZK tr

## DRP0120TR

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

### Components:

**Fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Not irritating when applied to human skin.  
GLP: yes  
No eye irritation

**reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6](3:1):**

Species: Rabbit  
Result: Corrosive

Species: Rabbit  
Assessment: Causes severe skin burns and eye damage.  
Method: OECD Test Guideline 405  
Result: Corrosive  
GLP: No information available.  
Information taken from reference works and the literature.

### **Respiratory or skin sensitisation**

#### Product:

No data available

### Components:

**reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6](3:1):**

Result: Causes sensitisation.

Test Type: Buehler Test  
Species: Guinea pig  
Assessment: Causes sensitisation.  
Method: OECD Test Guideline 406  
Result: positive  
GLP: No information available.  
Information taken from reference works and the literature.

Test Type: Local lymph node assay (LLNA)  
Species: Mouse  
Assessment: Causes sensitisation.  
Method: OECD Test Guideline 429  
Result: positive  
GLP: No information available.  
Information taken from reference works and the literature.

### **Germ cell mutagenicity**

#### Product:

Genotoxicity in vitro : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

## BELFASIN OZK tr

## DRP0120TR

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

Genotoxicity in vivo : No data available

Germ cell mutagenicity- Assessment : No data available

### Components:

**Fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: No data available

: Test Type: Ames test  
Concentration: see freetext  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus assay  
Species: Mouse  
Application Route: Oral  
Exposure time: 24, 48 and 72 hour  
Dose: 5000 mg/kg bw  
Method: OECD 474  
Result: negative  
GLP: yes

**reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6](3:1):**

Genotoxicity in vivo : Test Type: Micronucleus assay  
Species: Mouse  
Strain: CD-1  
Cell type: Bone marrow  
Application Route: Oral  
Exposure time: 24, 48 hrs  
Dose: 12.5, 25, 40, 50 mg/kg/d  
Method: OECD Test Guideline 475  
Result: negative  
GLP: yes

### **Carcinogenicity**

#### Product:

Carcinogenicity - Assessment : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

**BELFASIN OZK tr**

**DRP0120TR**

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

## Reproductive toxicity

### Product:

Effects on foetal development : This information is not available.

Reproductive toxicity - Assessment : No data available  
No data available

## STOT - single exposure

### Product:

No data available

## STOT - repeated exposure

### Product:

No data available

## Repeated dose toxicity

### Product:

No data available

## Components:

**Fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Species: Rat  
NOAEL: 300 mg/kg  
Application Route: Oral  
Exposure time: 90 days  
Number of exposures: once daily, 5 times a week  
Dose: 0, 100, 300 and 1000 mg/kg  
GLP: yes

**reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6](3:1):**

Species: Rat  
NOAEL: 30 mg/kg  
Application Route: Oral  
Exposure time: 90 days  
Group: yes  
Method: OECD Test Guideline 408  
GLP: No information available.

## Aspiration toxicity

### Product:

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

**BELFASIN OZK tr**

**DRP0120TR**

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

## Further information

### Product:

This product is a mixture. Health hazard information is based on its components.

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 : 10 - 100 mg/l

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Toxicity to microorganisms : EC0 : 1 - 10 mg/l

#### Components:

**Fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Toxicity to fish : LC0 (Danio rerio (zebra fish)): 5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC0 (Danio rerio (zebra fish)): 2,5 mg/l  
Exposure time: 96 h  
Method: ISO 7346/2  
GLP: no

LC0 (Danio rerio (zebra fish)): 5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC0 (Danio rerio (zebra fish)): 0,66 mg/l  
Exposure time: 96 h  
Method: ISO 7346/2  
GLP: yes

LC50 : 6,8 mg/l

LC100 : 9 mg/l

LC50 (Danio rerio (zebra fish)): 3 mg/l  
Exposure time: 96 h  
Method: ISO 7346/2  
GLP: no

LC100 (Danio rerio (zebra fish)): 3,6 mg/l  
Exposure time: 96 h  
Method: ISO 7346/2

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

## BELFASIN OZK tr

## DRP0120TR

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

GLP: no

LC50 (Danio rerio (zebra fish)): 6,8 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC100 (Danio rerio (zebra fish)): 9 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC50 (Danio rerio (zebra fish)): 2,06 mg/l  
Exposure time: 96 h  
Method: ISO 7346/2  
GLP: yes

LC100 (Danio rerio (zebra fish)): 3,2 mg/l  
Exposure time: 96 h  
Method: ISO 7346/2  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia magna (Water flea)): 29 mg/l  
Exposure time: 48 h  
Method: OECD 202  
GLP: no

EC0 (Daphnia magna (Water flea)): 8 mg/l  
Exposure time: 48 h  
Method: OECD 202

EC0 (Daphnia magna (Water flea)): 1,7 mg/l  
Exposure time: 48 h  
Method: OECD 202

EC0 (Daphnia magna (Water flea)): 1,9 mg/l  
Exposure time: 48 h  
Method: OECD 202

EC0 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 48 h  
Method: OECD 202  
GLP: yes

EC50 : 78 mg/l

EC100 : 162 mg/l

EC50 : 11 mg/l

EC100 : 19 mg/l

EC50 : 5 mg/l

EC100 : 8,5 mg/l

EC50 : 5,6 mg/l

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

## BELFASIN OZK tr

## DRP0120TR

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

	EC100 : 9,4 mg/l
	EC50 : 2,4 mg/l
	EC100 : 4,8 mg/l
Toxicity to algae	: EC0 (Pseudokirchneriella subcapitata (green algae)): 2,25 mg/l Exposure time: 96 h Method: DIN 38412 GLP: yes  (Pseudokirchneriella subcapitata (green algae)): Method: DIN 38412  (Pseudokirchneriella subcapitata (green algae)): Method: DIN 38412  EbC50 (Pseudokirchneriella subcapitata (green algae)): 45 mg/l Exposure time: 72 h Method: DIN 38412 GLP: yes  EbC50 (Pseudokirchneriella subcapitata (green algae)): 45 mg/l Exposure time: 72 h Method: DIN 38412 GLP: yes
Toxicity to microorganisms	: EC0 (Pseudomonas putida): 2,7 mg/l Exposure time: 16 h GLP: no  EC0 (Pseudomonas putida): 2,7 mg/l Exposure time: 16 h GLP: no  EC0 (Pseudomonas putida): 0,9 mg/l Exposure time: 16 h GLP: no  EC0 (Pseudomonas putida): 2,7 mg/l Exposure time: 16 h GLP: no  EC10 (Pseudomonas putida): 14 mg/l Exposure time: 16 h GLP: No information available.  EC0 (Pseudomonas putida): 2,7 mg/l Exposure time: 16 h GLP: no  EC0 (Pseudomonas putida): 2,7 mg/l Exposure time: 16 h

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

## BELFASIN OZK tr

## DRP0120TR

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

GLP: no

EC0 (*Pseudomonas putida*): 2,7 mg/l  
Exposure time: 16 h  
GLP: no

EC0 : 22 mg/l  
GLP:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2,7 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
GLP: no

LOEC: 9 mg/l

Toxicity to soil dwelling organisms : LC50: > 1.000 mg/kg  
Exposure time: 14 d  
Species: *Eisenia fetida* (earthworms)  
GLP: no

Plant toxicity : NOEC: 1.000 mg/kg  
Exposure time: 22 d  
Species: *Avena sativa* (oats)  
GLP: no

### reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6](3:1):

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0,22 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes  
Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0,1 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes  
Information taken from reference works and the literature.

M-Factor (Acute aquatic toxicity) : 100

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,1 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: OECD 202 part 2 (*Daphnia* lite cycle test)  
Information taken from reference works and the literature.

M-Factor (Chronic aquatic toxicity) : 10

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

## BELFASIN OZK tr

## DRP0120TR

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Information given is based on data on the components and the ecotoxicology of similar products.  
The examination of the product in the modified Zahn-Wellens test (OECD 302 B) showed an elimination of > 70 % DOC reduction within a test period of 28 days.

#### Components:

**Fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized:**

Biodegradability : Result: Biodegradable  
Biodegradation: 63 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: no  
Good biodegradability. All organic substances contained in the product achieve > 60% BOD/COD or CO<sub>2</sub> liberation, or > 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are reached.  
The surfactant(s) contained in this product 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.

Biodegradation: 93 %  
Exposure time: 28 d  
Method: ISO 10708  
GLP: no  
Readily and rapidly degradable. All organic substances contained in the product achieve > 60% BOD/COD or CO<sub>2</sub> liberation, or > 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are reached.

**reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6](3:1):**

Biodegradability : Inoculum: activated sludge  
Result: Biodegradable  
Biodegradation: > 80 %  
Method: OECD 303 A  
GLP: No information available.

Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: > 80 %  
Method: OECD Test Guideline 301D  
GLP: No information available.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

**BELFASIN OZK tr**

**DRP0120TR**

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : No data available

## 12.4 Mobility in soil

### Product:

Mobility : Medium: Soil  
No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Other adverse effects

### Product:

Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.  
The product should not be allowed to enter drains, water courses or the soil.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.  
Do not dispose of waste into sewer.  
Do not dispose of together with household waste.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Dispose of as unused product.

---

## SECTION 14: Transport information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

**BELFASIN OZK tr**

**DRP0120TR**

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

## 14.4 Packing group

Not regulated as a dangerous good

## 14.5 Environmental hazards

Not regulated as a dangerous good

## 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 for product as supplied.

---

## SECTION 15: Regulatory information

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

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Not applicable

---

## SECTION 16: Other information

### Full text of H-Statements

H301	: Toxic if swallowed.
H311	: Toxic in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Eye Irrit.	: Eye irritation
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - In-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Pulcra** Chemicals

**BELFASIN OZK tr**

**DRP0120TR**

Version  
1.2

Revision Date:  
14.06.2017

Date of last issue: 31.03.2016

ternational Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.