

## Pool Power Mini

Version number: 3.0  
Replaces version of: 2012-10-26 (2)

Revision: 2018-08-07  
First version: 2004-04-20

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

#### 1.1 Product identifier

|                                    |                        |
|------------------------------------|------------------------|
| <b>Trade name</b>                  | <b>Pool Power Mini</b> |
| <b>Registration number (REACH)</b> | not relevant (mixture) |
| <b>CAS number</b>                  | not relevant (mixture) |

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

|                                 |                               |
|---------------------------------|-------------------------------|
| <b>Relevant identified uses</b> | Disinfection of swimming pool |
|---------------------------------|-------------------------------|

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

|                              |                                     |
|------------------------------|-------------------------------------|
| Melspring International B.V. | Telephone: ++31 (0) 26 - 38420 - 00 |
| Arnhemsestraatweg 8          | Telefax: ++31 (0) 26 - 38420 - 11   |
| NL-6881 NG Velp              |                                     |
| Netherlands                  |                                     |

**e-mail (competent person)** [sdb@csb-online.de](mailto:sdb@csb-online.de)

Please do not use this e-mail adress to ask for the latest safety data sheet. For this purpose contact Melspring International B.V.

#### 1.4 Emergency telephone number

As above or next toxicological information centre.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

| Classification |                                                                                 |          |                           |                  |
|----------------|---------------------------------------------------------------------------------|----------|---------------------------|------------------|
| Section        | Hazard class                                                                    | Category | Hazard class and category | Hazard statement |
| 3.10           | acute toxicity (oral)                                                           | 4        | Acute Tox. 4              | H302             |
| 3.3            | serious eye damage/eye irritation                                               | 2        | Eye Irrit. 2              | H319             |
| 3.8R           | specific target organ toxicity - single exposure (respiratory tract irritation) | 3        | STOT SE 3                 | H335             |
| 4.1A           | hazardous to the aquatic environment - acute hazard                             | 1        | Aquatic Acute 1           | H400             |

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| Classification |                                                       |          |                           |                  |
|----------------|-------------------------------------------------------|----------|---------------------------|------------------|
| Section        | Hazard class                                          | Category | Hazard class and category | Hazard statement |
| 4.1C           | hazardous to the aquatic environment - chronic hazard | 1        | Aquatic Chronic 1         | H410             |

for full text of abbreviations: see SECTION 16

## The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

**Signal word** warning

### Pictograms

GHS07, GHS09



### Hazard statements

**H302** Harmful if swallowed.  
**H319** Causes serious eye irritation.  
**H335** May cause respiratory irritation.  
**H410** Very toxic to aquatic life with long lasting effects.

### Precautionary statements

**P101** If medical advice is needed, have product container or label at hand.  
**P102** Keep out of reach of children.  
**P271** Use only outdoors or in a well-ventilated area.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**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/doctor.  
**P391** Collect spillage.  
**P403+P233** Store in a well-ventilated place. Keep container tightly closed.

### Supplemental hazard information

**EUH031** Contact with acids liberates toxic gas.

**Tactile warning of danger** yes

**Hazardous ingredients for labelling** trichloro-1,3,5-triazinetriene

## 2.3 Other hazards

Warning! Do not use together with other products. May release dangerous gases (chlorine).

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## Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## Remarks

Read label before use.

The product was tested for oxidising properties by UN test method O.1. The Product does not meet the criteria for a classification as oxidizing solid according to Regulation (EG) No.1272/2008 (CLP-/GHS-regulation). .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Hazardous ingredients          |                                                                                |           |                                                                                                                                           |                                                                                       |                 |                                   |
|--------------------------------|--------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|-----------------------------------|
| Name of substance              | Identifier                                                                     | Wt%       | Classification acc. to GHS                                                                                                                | Pictograms                                                                            | Notes           | Specific Conc. Limits             |
| trichloro-1,3,5-triazinetriene | CAS No<br>87-90-1<br><br>EC No<br>201-782-8<br><br>Index No<br>613-031-00-5    | ≥ 50      | Ox. Sol. 2 / H272<br>Acute Tox. 4 / H302<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H335<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410 |   | GHS-HC<br>IOELV |                                   |
| boric acid                     | CAS No<br>10043-35-3<br><br>EC No<br>233-139-2<br><br>Index No<br>005-007-00-2 | 0 – < 2.5 | Repr. 1B / H360FD                                                                                                                         |  | GHS-HC          | Repr. 1B;<br>H360FD: C ≥ 5.5<br>% |

#### Notes

GHS- Harmonised classification (the classification of the substance corresponds to the entry in the list according to HC: 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Self-protection of the first aider.

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Remove person to fresh air and keep comfortable for breathing.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

In case of respiratory tract irritation, consult a physician.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

Call a physician immediately. Causes poorly healing wounds.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

#### Following ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Call a physician in any case.

#### Notes for the doctor

none

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

Cough, pain, choking, and breathing difficulties.

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

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

excess of water

#### Unsuitable extinguishing media

All but water

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

Hazardous decomposition products: Section 10.

Deposited combustible dust has considerable explosion potential.

Oxidising property.

#### Hazardous combustion products

nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), hydrogen chloride (HCl), chlorine (Cl<sub>2</sub>), Chlorine dioxide

### 5.3 Advice for firefighters

Non-combustible.

Co-ordinate firefighting measures to the fire surroundings.

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

#### Special protective equipment for firefighters

chemical protection suit, wear self-contained breathing apparatus

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Do not get in eyes, on skin, or on clothing.

Do not breathe dust.

Control of dust.

Eliminate all ignition sources if safe to do so.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

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## 6.2 Environmental precautions

Knock down dust with water spray.  
Keep away from drains, surface and ground water.  
Retain contaminated washing water and dispose of it.  
If substance has entered a water course or sewer, inform the responsible authority.

## 6.3 Methods and material for containment and cleaning up

### Advices on how to contain a spill

take up mechanically

### Advices on how to clean up a spill

Take up mechanically.  
Collect spillage.

### Other information relating to spills and releases

Place in appropriate containers for disposal.  
Ventilate affected area.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5.  
Personal protective equipment: see section 8.  
Incompatible materials: see section 10.  
Disposal considerations: see section 13.

## SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Do not breathe dust.  
Measures to prevent aerosol and dust generation.

### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.  
Keep away from sources of ignition - No smoking.  
Handle and open container with care.  
Removal of dust deposits.

### Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.  
Oxidising In dry state.

### Measures to protect the environment

Avoid release to the environment.

### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.  
Wash hands after use.  
Preventive skin protection (barrier creams/ointments) is recommended.  
Remove contaminated clothing and protective equipment before entering eating areas.

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## 7.2 Conditions for safe storage, including any incompatibilities

### Explosive atmospheres

Removal of dust deposits.

### Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take precautionary measures against static discharge.

### Incompatible substances or mixtures

Incompatible materials: see section 10.

### Do not mix with

acids

### Protect against external exposure, such as

heat, humidity, UV-radiation/sunlight

### Consideration of other advice

Keep away from food, drink and animal feedingstuffs.  
Store away from flammable substances.  
Store away from reducing agents.  
Store away from acids.

### Ventilation requirements

Provision of sufficient ventilation.

### Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place.  
Store in a dry place.  
Keep locked up.

### Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) |                   |           |          |            |             |              |              |
|----------------------------------------------------------------|-------------------|-----------|----------|------------|-------------|--------------|--------------|
| Country                                                        | Name of agent     | CAS No    | Notation | Identifier | TWA [mg/m³] | STEL [mg/m³] | Source       |
| EU                                                             | hydrogen chloride | 7647-01-0 | proc     | IOELV      | 8           | 15           | 2017/2398/EU |
| EU                                                             | chlorine          | 7782-50-5 | proc     | IOELV      |             | 1.5          | 2017/2398/EU |

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## Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent     | CAS No     | Notation | Identifier | TWA [mg/m³] | STEL [mg/m³] | Source    |
|---------|-------------------|------------|----------|------------|-------------|--------------|-----------|
| GB      | dust              |            | i        | WEL        | 10          |              | EH40/2005 |
| GB      | dust              |            | r        | WEL        | 4           |              | EH40/2005 |
| GB      | chlorine dioxide  | 10049-04-4 | proc     | WEL        | 0.28        | 0.84         | EH40/2005 |
| GB      | hydrogen chloride | 7647-01-0  | ga, proc | WEL        | 2           | 8            | EH40/2005 |
| GB      | chlorine          | 7782-50-5  | proc     | WEL        |             | 1.5          | EH40/2005 |

### Notation

ga as gases and aerosols

i inhalable fraction

proc substances released during the process

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

## Relevant DNELs of components of the mixture

| Name of substance | CAS No     | Endpoint | Threshold level   | Protection goal, route of exposure | Used in                       | Exposure time              |
|-------------------|------------|----------|-------------------|------------------------------------|-------------------------------|----------------------------|
| boric acid        | 10043-35-3 | DNEL     | 8.3 mg/m³         | human, inhalatory                  | worker (industry)             | chronic - systemic effects |
| boric acid        | 10043-35-3 | DNEL     | 392 mg/kg bw/day  | human, dermal                      | worker (industry)             | chronic - systemic effects |
| boric acid        | 10043-35-3 | DNEL     | 4.15 mg/m³        | human, inhalatory                  | consumer (private households) | chronic - systemic effects |
| boric acid        | 10043-35-3 | DNEL     | 0.98 mg/kg bw/day | human, oral                        | consumer (private households) | chronic - systemic effects |
| boric acid        | 10043-35-3 | DNEL     | 196 mg/kg bw/day  | human, dermal                      | consumer (private households) | chronic - systemic effects |

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| Relevant PNECs of components of the mixture |            |          |                 |                              |
|---------------------------------------------|------------|----------|-----------------|------------------------------|
| Name of substance                           | CAS No     | Endpoint | Threshold level | Environmental compartment    |
| boric acid                                  | 10043-35-3 | PNEC     | 2.9 mg/l        | freshwater                   |
| boric acid                                  | 10043-35-3 | PNEC     | 2.9 mg/l        | marine water                 |
| boric acid                                  | 10043-35-3 | PNEC     | 10 mg/l         | sewage treatment plant (STP) |
| boric acid                                  | 10043-35-3 | PNEC     | 13.7 mg/l       | water                        |
| boric acid                                  | 10043-35-3 | PNEC     | 5.7 mg/kg       | soil                         |

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection. (EN 166).

##### Hand protection

| Material                  | Material thickness       | Breakthrough times of the glove material |
|---------------------------|--------------------------|------------------------------------------|
| PVC: polyvinyl chloride   | no information available | no information available                 |
| NR: natural rubber, latex | no information available | no information available                 |

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Particulate filter device (EN 143).

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                 |                |
|-----------------|----------------|
| Physical state  | solid          |
| Form            | tablets        |
| Colour          | white          |
| Odour           | chlorine-like  |
| Odour threshold | not determined |

#### Other safety parameters

|                                         |                                 |
|-----------------------------------------|---------------------------------|
| pH (value)                              | not applicable                  |
| Melting point/freezing point            | 225 – 240 °C                    |
| Initial boiling point and boiling range | not determined                  |
| Flash point                             | not applicable                  |
| Evaporation rate                        | not determined                  |
| Flammability (solid, gas)               | oxidising properties (solids)   |
| Explosion limits of dust clouds         | not determined                  |
| Vapour pressure                         | not applicable                  |
| Density                                 | ~2.5 g/cm <sup>3</sup> at 20 °C |
| Relative density                        | not determined                  |

#### Solubility(ies)

|                         |                 |
|-------------------------|-----------------|
| <b>Water solubility</b> | 12 g/l at 25 °C |
|-------------------------|-----------------|

#### Partition coefficient

|                                               |                                |
|-----------------------------------------------|--------------------------------|
| n-octanol/water (log KOW)                     | not determined                 |
| Auto-ignition temperature                     | not relevant<br>(Solid matter) |
| Relative self-ignition temperature for solids | not applicable                 |
| Decomposition temperature                     | not determined                 |

#### Viscosity

|                            |                                |
|----------------------------|--------------------------------|
| <b>Kinematic viscosity</b> | not relevant<br>(solid matter) |
|----------------------------|--------------------------------|

|                          |                                |
|--------------------------|--------------------------------|
| <b>Dynamic viscosity</b> | not relevant<br>(solid matter) |
|--------------------------|--------------------------------|

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Explosive properties

not explosive

Oxidising properties

shall not be classified as oxidising  
oxidising properties (solids)

## 9.2 Other information

Danger of fire In contact with Combustible materials.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Contact with acids liberates toxic gas.

Dangerous/dangerous reactions with Combustible materials.

Fabrics.

Spontaneous ignition possible through auto-oxidation of cloths soaked in the product.

Organic substances.

In contact with Water/Humidity.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Humidity.

Water.

Control of dust.

### 10.5 Incompatible materials

acids, reducing agents, Combustible materials, amine, organic substances

Release of toxic materials with:

acids

### 10.6 Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>).

Carbon monoxide (CO).

Carbon dioxide (CO<sub>2</sub>).

Chlorine.

Hydrogen chloride (HCl).

Hazardous combustion products: see section 5.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Classification procedure

If not otherwise specified the classification is based on:

Ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Shall not be classified as acutely toxic (dermal).

Harmful if swallowed.

#### Inhalation.

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Acute toxicity of components of the mixture

| Name of substance                                                | CAS No     | Exposure route | End-point | Value        | Species   | Method             | Source |
|------------------------------------------------------------------|------------|----------------|-----------|--------------|-----------|--------------------|--------|
| trichloro-1,3,5-triazinetri-one                                  | 87-90-1    | oral           | LD50      | 787 mg/kg    | rat, male | EPA OPP 81-1       | ECHA   |
| trichloro-1,3,5-triazinetri-one                                  | 87-90-1    | dermal         | LD50      | >5,000 mg/kg | rat       | EPA OPP 81-2       | ECHA   |
| boric acid                                                       | 10043-35-3 | oral           | LD50      | 3,450 mg/kg  | rat, male |                    | ECHA   |
| boric acid                                                       | 10043-35-3 | dermal         | LD50      | >2,000 mg/kg | rabbit    | FIFRA (40 CFR 163) | ECHA   |
| boric acid: LC50: > 2,0 mg/l (dust, 5h, rat), no deaths occurred |            |                |           |              |           |                    |        |

#### Skin corrosion/irritation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

##### Skin sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

##### Respiratory sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

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## Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Carcinogenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - single exposure

May cause respiratory irritation.

## Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Very toxic to aquatic organisms.

Test data are not available for the complete mixture.

#### Aquatic toxicity (acute) of components of the mixture

| Name of substance              | CAS No  | Endpoint | Value     | Species                        | Method | Source | Notes | Exposure time |
|--------------------------------|---------|----------|-----------|--------------------------------|--------|--------|-------|---------------|
| trichloro-1,3,5-triazinetriene | 87-90-1 | LC50     | 0.21 mg/l | daphnia magna                  |        | ECHA   |       | 48 h          |
| trichloro-1,3,5-triazinetriene | 87-90-1 | LC50     | 0.23 mg/l | bluegill (Lepomis macrochirus) |        | ECHA   |       | 96 h          |
| trichloro-1,3,5-triazinetriene | 87-90-1 | EC50     | 0.17 mg/l | daphnia magna                  |        | ECHA   |       | 48 h          |

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| Name of substance              | CAS No     | Endpoint | Value            | Species                              | Method             | Source   | Notes                                                  | Exposure time |
|--------------------------------|------------|----------|------------------|--------------------------------------|--------------------|----------|--------------------------------------------------------|---------------|
| trichloro-1,3,5-triazinetriene | 87-90-1    | EbC50    | 2,700 mg/l       | algae                                | OECD Guideline 201 | ECHA     | Navicula pelliculosa, Monosodium salt of cyanuric acid | 72 h          |
| trichloro-1,3,5-triazinetriene | 87-90-1    | ErC50    | >100 mg/l        | algae                                | DIN EN ISO 10253   | ECHA     | Skeletonema costatum, Monosodium salt of cyanuric acid | 72 h          |
| boric acid                     | 10043-35-3 | EC50     | 113 – 1,376 mg/l | daphnia                              |                    | producer |                                                        | 48 h          |
| boric acid                     | 10043-35-3 | EC50     | 10 – 28 mg/l     | Grünalge (Selenastrum capricornutum) |                    | producer |                                                        | 72 h          |
| boric acid                     | 10043-35-3 | LC50     | 80 – 627 mg/l    | Lachs                                |                    | producer |                                                        | 96 h          |

### Aquatic toxicity (chronic)

Very toxic to aquatic life with long lasting effects.

Test data are not available for the complete mixture.

### Aquatic toxicity (chronic) of components of the mixture

| Name of substance              | CAS No  | Endpoint | Value      | Species        | Method             | Source | Notes                            | Exposure time |
|--------------------------------|---------|----------|------------|----------------|--------------------|--------|----------------------------------|---------------|
| trichloro-1,3,5-triazinetriene | 87-90-1 | EC50     | 51 mg/l    | microorganisms | OECD Guideline 209 | ECHA   | Trichloro-s-triazinetriene       | 3 h           |
| trichloro-1,3,5-triazinetriene | 87-90-1 | EC50     | 2,600 mg/l | daphnia magna  | OECD Guideline 211 | ECHA   | monosodium salt of cyanuric acid | 21 d          |

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| Name of substance              | CAS No     | Endpoint          | Value           | Species                              | Method                       | Source | Notes                                                            | Exposure time |
|--------------------------------|------------|-------------------|-----------------|--------------------------------------|------------------------------|--------|------------------------------------------------------------------|---------------|
| trichloro-1,3,5-triazinetrione | 87-90-1    | NOEC              | <0.5 mg/l       | algae                                | Modified ASTM method E645-85 | ECHA   | Chlorella pyrenoidosa, Euglena gracilis and Scenedesmus obliquus | 3 h           |
| trichloro-1,3,5-triazinetrione | 87-90-1    | NOEC              | 10 mg/l         | microorganisms                       | OECD Guideline 209           | ECHA   | trichloro-s-triazinetrione                                       | 3 h           |
| trichloro-1,3,5-triazinetrione | 87-90-1    | NOEC              | 160 mg/l        | daphnia magna                        | OECD Guideline 211           | ECHA   | Monosodium salt of cyanuric acid,                                | 21 d          |
| trichloro-1,3,5-triazinetrione | 87-90-1    | NOEC              | 1,000 mg/l      | rainbow trout (Oncorhynchus mykiss)  | OECD Guideline 215           | ECHA   | Mono sodium salt of cyanuric acid                                | 28 d          |
| trichloro-1,3,5-triazinetrione | 87-90-1    | LOEC              | 500 mg/l        | daphnia magna                        | OECD Guideline 211           | ECHA   | Monosodium salt of cyanuric acid,                                | 21 d          |
| trichloro-1,3,5-triazinetrione | 87-90-1    | LOEC              | >1,000 mg/l     | rainbow trout (Oncorhynchus mykiss)  | OECD Guideline 215           | ECHA   | Monosodium salt of cyanuric acid,                                | 28 d          |
| trichloro-1,3,5-triazinetrione | 87-90-1    | growth (EbCx) 90% | 0.5 mg/l        | algae                                | Modified ASTM method E645-85 | ECHA   | Chlorella pyrenoidosa, Euglena gracilis and Scenedesmus obliquus | 3 h           |
| boric acid                     | 10043-35-3 | NOEC              | 11.2 – 627 mg/l | fathead minnow (Pimephales promelas) | EPA OPPTS 850.1400           | ECHA   |                                                                  | 32 d          |
| boric acid                     | 10043-35-3 | NOEC              | 6.6 mg/l        | freshwater shrimp (Gammarus. sp.)    | EPA/600/R-99/064.            | ECHA   |                                                                  | 42 d          |

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| Name of substance | CAS No     | Endpoint | Value     | Species                                 | Method             | Source | Notes | Exposure time |
|-------------------|------------|----------|-----------|-----------------------------------------|--------------------|--------|-------|---------------|
| boric acid        | 10043-35-3 | NOEC     | 17.5 mg/l | algae (pseudokirchneriella subcapitata) | OECD Guideline 201 | ECHA   |       | 3 d           |

### 12.2 Persistence and degradability

#### Degradability of components of the mixture

| Name of substance              | CAS No  | Process          | Degradation rate | Time | Method    | Source |
|--------------------------------|---------|------------------|------------------|------|-----------|--------|
| trichloro-1,3,5-triazinetriene | 87-90-1 | oxygen depletion | 2 %              | 28 d | OECD 301D | ECHA   |

#### Biodegradation

Data are not available.

#### Persistence

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

| Name of substance              | CAS No     | Log KOW                      |
|--------------------------------|------------|------------------------------|
| trichloro-1,3,5-triazinetriene | 87-90-1    |                              |
| boric acid                     | 10043-35-3 | -1.09 (pH value: 7.5, 22 °C) |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Other adverse effects

Data are not available.

#### Endocrine disrupting potential

The mixture contains substance(s) with an endocrine disrupting potential.

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## Endocrine disrupting chemicals (EDC)

| Name of substance | CAS No     | Combined category | Human health category | Wildlife category |
|-------------------|------------|-------------------|-----------------------|-------------------|
| boric acid        | 10043-35-3 | CAT1              | CAT1                  | CAT2              |

### Legend

- CAT1 Category 1 - evidence of endocrine disruption in at least one species using intact animals  
CAT2 Category 2 - at least some in vitro evidence of biological activity related to endocrine disruption

### Remarks

Wassergefährdungsklasse, WGK (water hazard class): 2 Keep away from drains, surface and ground water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.  
Handle contaminated packages in the same way as the substance itself.

### Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

|      |                                                           |                                                    |
|------|-----------------------------------------------------------|----------------------------------------------------|
| 14.1 | UN number                                                 | 3077                                               |
| 14.2 | UN proper shipping name                                   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
|      | Technical name (hazardous ingredients)                    | TRICHLOROISOCYANURIC ACID, DRY                     |
| 14.3 | Transport hazard class(es)                                |                                                    |
|      | Class                                                     | 9                                                  |
| 14.4 | Packing group                                             | III                                                |
| 14.5 | Environmental hazards                                     | hazardous to the aquatic environment               |
|      | Environmentally hazardous substance (aquatic environment) | TRICHLOROISOCYANURIC ACID, DRY                     |
| 14.6 | Special precautions for user                              |                                                    |

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Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

#### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

|                                                                                     |                                                                                                                     |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| UN number                                                                           | 3077                                                                                                                |
| Proper shipping name                                                                | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (contains: TRICHLOROISOCYANURIC ACID, DRY), 9, III, (-) |
| Class                                                                               | 9                                                                                                                   |
| Classification code                                                                 | M7                                                                                                                  |
| Packing group                                                                       | III                                                                                                                 |
| Danger label(s)                                                                     | 9, fish and tree                                                                                                    |
|  |                                                                                                                     |
| Environmental hazards                                                               | yes<br>(hazardous to the aquatic environment)                                                                       |
| Special provisions (SP)                                                             | 274, 335, 375, 601                                                                                                  |
| Excepted quantities (EQ)                                                            | E1                                                                                                                  |
| Limited quantities (LQ)                                                             | 5 kg                                                                                                                |
| Transport category (TC)                                                             | 3.                                                                                                                  |
| Tunnel restriction code (TRC)                                                       | -                                                                                                                   |
| Hazard identification No                                                            | 90                                                                                                                  |
| Emergency Action Code                                                               | 2Z                                                                                                                  |

#### International Maritime Dangerous Goods Code (IMDG)

|                      |                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| UN number            | 3077                                                                                                           |
| Proper shipping name | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (contains: TRICHLOROISOCYANURIC ACID, DRY), 9, III |
| Class                | 9                                                                                                              |
| Marine pollutant     | yes<br>(hazardous to the aquatic environment)                                                                  |
| Packing group        | III                                                                                                            |

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|                                                                                                                                                                     |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Danger label(s)                                                                                                                                                     | 9, fish and tree        |
|   |                         |
| Special provisions (SP)                                                                                                                                             | 274, 335, 966, 967, 969 |
| Excepted quantities (EQ)                                                                                                                                            | E1                      |
| Limited quantities (LQ)                                                                                                                                             | 5 kg                    |
| EmS                                                                                                                                                                 | F-A, S-F                |
| Stowage category                                                                                                                                                    | A                       |

## International Civil Aviation Organization (ICAO-IATA/DGR)

|                                                                                                                                                                         |                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| UN number                                                                                                                                                               | 3077                                                                                                           |
| Proper shipping name                                                                                                                                                    | UN3077, Environmentally hazardous substance, solid, n.o.s., (contains: TRICHLOROISOCYANURIC ACID, DRY), 9, III |
| Class                                                                                                                                                                   | 9                                                                                                              |
| Environmental hazards                                                                                                                                                   | yes<br>(hazardous to the aquatic environment)                                                                  |
| Packing group                                                                                                                                                           | III                                                                                                            |
| Danger label(s)                                                                                                                                                         | 9, fish and tree                                                                                               |
|   |                                                                                                                |
| Special provisions (SP)                                                                                                                                                 | A97, A158, A179, A197                                                                                          |
| Excepted quantities (EQ)                                                                                                                                                | E1                                                                                                             |
| Limited quantities (LQ)                                                                                                                                                 | 30 kg                                                                                                          |

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

| Dangerous substances with restrictions (REACH, Annex XVII) |                        |             |
|------------------------------------------------------------|------------------------|-------------|
| Name of substance                                          | Name acc. to inventory | Restriction |
| boric acid                                                 | toxic for reproduction | R28-30      |

#### Legend

R28-30 1. Shall not be placed on the market, or used,

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## Legend

- as substances,
  - as constituents of other substances, or,
  - in mixtures,
- for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:
- either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,
  - the relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008.

Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:  
'Restricted to professional users'.

2. By way of derogation, paragraph 1 shall not apply to:

- (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;
  - (b) cosmetic products as defined by Directive 76/768/EEC;
  - (c) the following fuels and oil products:
    - motor fuels which are covered by Directive 98/70/EC,
    - mineral oil products intended for use as fuel in mobile or fixed combustion plants,
    - fuels sold in closed systems (e.g. liquid gas bottles);
  - (d) artists' paints covered by Directive 1999/45/EC;
  - (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2.
- Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.

## List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

| Substance of Very High Concern (SVHC) |            |                |            |
|---------------------------------------|------------|----------------|------------|
| Name acc. to inventory                | CAS No     | Listed in      | Remarks    |
| boric acid                            | 10043-35-3 | Candidate list | Repr. A57c |

## Legend

candidate list Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV

Repr. A57c Toxic for reproduction (article 57c)

## Seveso Directive

| 2012/18/EU (Seveso III) |                                                                      |                                                                                       |       |
|-------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|
| No                      | Dangerous substance/hazard categories                                | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
| E1                      | environmental hazards (hazardous to the aquatic environment, cat. 1) | 100 200                                                                               | 56)   |

## Notation

56) hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

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### **Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II**

none of the ingredients are listed

### **Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

none of the ingredients are listed

### **Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)**

none of the ingredients are listed

### **Regulation 98/2013/EU on the marketing and use of explosives precursors**

none of the ingredients are listed

## **15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## **SECTION 16: Other information**

### **Indication of changes (revised safety data sheet)**

Indication of changes: Section 7, 8, 15

### **Abbreviations and acronyms**

| <b>Abbr.</b>    | <b>Descriptions of used abbreviations</b>                                                                                                                                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2017/2398/EU    | Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work                              |
| Acute Tox.      | Acute toxicity                                                                                                                                                                                                        |
| ADN             | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR             | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| Aquatic Acute   | Hazardous to the aquatic environment - acute hazard                                                                                                                                                                   |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard                                                                                                                                                                 |
| CAS             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                                                                |
| CLP             | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures                                                                                                                    |
| DGR             | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                                                            |
| DNEL            | Derived No-Effect Level                                                                                                                                                                                               |
| EC No           | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                                     |

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| Abbr.      | Descriptions of used abbreviations                                                                                                                                                    |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EH40/2005  | EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> ) |
| EINECS     | European Inventory of Existing Commercial Chemical Substances                                                                                                                         |
| ELINCS     | European List of Notified Chemical Substances                                                                                                                                         |
| EmS        | Emergency Schedule                                                                                                                                                                    |
| Eye Dam.   | Seriously damaging to the eye                                                                                                                                                         |
| Eye Irrit. | Irritant to the eye                                                                                                                                                                   |
| GHS        | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                             |
| IATA       | International Air Transport Association                                                                                                                                               |
| IATA/DGR   | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                        |
| ICAO       | International Civil Aviation Organization                                                                                                                                             |
| IMDG       | International Maritime Dangerous Goods Code                                                                                                                                           |
| index No   | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008                                                              |
| IOELV      | Indicative occupational exposure limit value                                                                                                                                          |
| log KOW    | n-Octanol/water                                                                                                                                                                       |
| MARPOL     | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")                                                                                     |
| NLP        | No-Longer Polymer                                                                                                                                                                     |
| Ox. Sol.   | Oxidising solid                                                                                                                                                                       |
| PBT        | Persistent, Bioaccumulative and Toxic                                                                                                                                                 |
| PNEC       | Predicted No-Effect Concentration                                                                                                                                                     |
| REACH      | Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                                  |
| Repr.      | Reproductive toxicity                                                                                                                                                                 |
| RID        | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)               |
| STEL       | Short-term exposure limit                                                                                                                                                             |
| STOT SE    | Specific target organ toxicity - single exposure                                                                                                                                      |
| SVHC       | Substance of Very High Concern                                                                                                                                                        |
| TWA        | Time-weighted average                                                                                                                                                                 |
| vPvB       | Very Persistent and very Bioaccumulative                                                                                                                                              |
| WEL        | Workplace exposure limit                                                                                                                                                              |

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## Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. 2016 - ATP 9 2016/1179.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code   | Text                                                  |
|--------|-------------------------------------------------------|
| H272   | May intensify fire; oxidiser.                         |
| H302   | Harmful if swallowed.                                 |
| H319   | Causes serious eye irritation.                        |
| H335   | May cause respiratory irritation.                     |
| H360FD | May damage fertility. May damage the unborn child.    |
| H400   | Very toxic to aquatic life.                           |
| H410   | Very toxic to aquatic life with long lasting effects. |

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## Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.