

## Section 11. Toxicological information

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route | ATE value    |
|-------|--------------|
| Oral  | 2222.2 mg/kg |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name                   | Result                             | Species                                    | Exposure |
|---|------------------------------------|--|----------|
| Alcohols, C9-11, ethoxylated              | Acute EC50 5.36 mg/l Fresh water   | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
|   | Acute EC50 2686 µg/l Fresh water   | Daphnia - Daphnia magna - Neonate          | 48 hours |
| tetrasodium ethylene diamine tetraacetate | Acute LC50 8500 µg/l Fresh water   | Fish - Pimephales promelas                 | 96 hours |
|   | Acute LC50 486000 µg/l Fresh water | Fish - Lepomis macrochirus                 | 96 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name                   | LogP <sub>ow</sub> | BCF | Potential |
|---|--------------------|-----|-----------|
| Alcohols, C9-11, ethoxylated              | -                  | 237 | low       |
| tetrasodium ethylene diamine tetraacetate | 5.01               | 1.8 | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | DOT<br>Classification | TDG<br>Classification | Mexico<br>Classification | ADR/RID        | IMDG           | IATA           |
|----------------------------|-----------------------|-----------------------|--------------------------|----------------|----------------|----------------|
| UN number                  | Not regulated.        | Not regulated.        | Not regulated.           | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name    | -                     | -                     | -                        | -              | -              | -              |
| Transport hazard class(es) | -                     | -                     | -                        | -              | -              | -              |
| Packing group              | -                     | -                     | -                        | -              | -              | -              |
| Environmental hazards      | No.                   | No.                   | No.                      | No.            | No.            | No.            |
| Additional information     | -                     | -                     | -                        | -              | -              | -              |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
Not determined.  
**Clean Water Act (CWA) 311:** Formaldehyde, solution; sodium hydroxide

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

## Section 15. Regulatory information

DEA List I Chemicals : Not listed  
(Precursor Chemicals)

DEA List II Chemicals : Not listed  
(Essential Chemicals)

### SARA 302/304

#### Composition/information on ingredients

| Name                   | %    | EHS  | SARA 302 TPQ |           | SARA 304 RQ |           |
|------------------------|------|------|--------------|-----------|-------------|-----------|
|                        |      |      | (lbs)        | (gallons) | (lbs)       | (gallons) |
| Formaldehyde, solution | <0.1 | Yes. | 500          | 73.9      | 100         | 14.8      |

SARA 304 RQ : 2666666.7 lbs / 1210666.7 kg [312023.7 gal / 1181138.2 L]

### SARA 311/312

Classification : Not applicable.

#### Composition/information on ingredients

| Name   | %                  | Fire hazard | Sudden release of pressure | Reactive   | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|--|--------------------|-------------|----------------------------|------------|---------------------------------|---------------------------------|
| Alcohols, C9-11, ethoxylated tetrasodium ethylene diamine tetraacetate | ≥3 - <5<br>≥1 - <2 | No.<br>Yes. | No.<br>No.                 | No.<br>No. | Yes.<br>Yes.                    | No.<br>No.                      |

### State regulations

Massachusetts : None of the components are listed.  
New York : None of the components are listed.  
New Jersey : None of the components are listed.  
Pennsylvania : None of the components are listed.

### California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

| Ingredient name        | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|------------------------|--------|--------------|---------------------------|---------------------------------|
| Formaldehyde, solution | Yes.   | No.          | Yes.                      | No.                             |

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## Section 15. Regulatory information

### International lists

#### International inventory

|                   |                   |
|-------------------|-------------------|
| Australia         | : Not determined. |
| Canada            | : Not determined. |
| China             | : Not determined. |
| Europe            | : Not determined. |
| Japan             | : Not determined. |
| Malaysia          | : Not determined. |
| New Zealand       | : Not determined. |
| Philippines       | : Not determined. |
| Republic of Korea | : Not determined. |
| Taiwan            | : Not determined. |

## Section 16. Other information

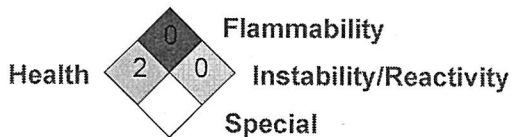
### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 0 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.100, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

### History

|                                |              |
|--------------------------------|--------------|
| Date of printing               | : 3/19/2015. |
| Date of issue/Date of revision | : 3/19/2015. |



## Section 16. Other information

Date of previous issue : 3/19/2015.

Version : 0.02

Key to abbreviations : ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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## POLBIO ENZYSAN 2000

2106799

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

**Identification of the product** : Liquid.  
**Use** : Industrial and institutional detergent  
See product bulletin for detailed information.  
**Company identification** : See distributor.  
**Name and function of the responsible person** : adress email : [msds@pollet.eu](mailto:msds@pollet.eu)  
tél 0032 69 553 893 or 883  
Laboratory of Pollet S.A.

**SECTION 2 Hazards identification****2.1. Classification of the substance or mixture****Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

Not regulated.

**2.2. Label elements****Labelling Regulation EC 1272/2008 (CLP)**

• Hazard statements : Not regulated.

**2.3. Other hazards**

Other hazards : None under normal conditions.

**SECTION 3 Composition/information on ingredients****3.1./3.2. Substance / Preparation****Substance / Preparation** : Preparation.

This product is not considered to be hazardous but contains hazardous components.

| Substance name                                   | Contents     | CAS No     | EC No     | Index No     | REACH            | Classification  |
|--|--------------|------------|-----------|--------------|------------------|---|
| Alcohols, C9-11, ethoxylated                     | > 1 <= 5 %   | 68439-46-3 | ----      | ----         | ----             | Xn; R22<br>Xi; R36<br>-----<br>Eye Irrit. 2;H319<br>Acute Tox. 4 (Oral);H302  |
| sodium p-cumenesulphonate                        | > 1 <= 5 %   | 15763-76-5 | 239-854-6 | ----         | 01-2119489411-37 | Xi; R36<br>-----<br>Eye Irrit. 2;H319   |
| l-Carvone  | > 0.1 <= 1 % | 6485-40-1  | 229-352-5 | ----         | ----             | Xn; R22<br>R43<br>-----<br>Acute Tox. 4 (Oral);H302<br>Skin Sens. 1;H317  |
| Bronopol (INN) : 2-bromo-2-nitropropane-1,3 diol | > 0.1 <= 1 % | 52-51-7    | 200-143-0 | 603-085-00-8 | ----             | Xn; R21/22<br>Xi; R37/38-41<br>N; R50<br>-----<br>Eye Dam. 1;H318<br>Acute Tox. 4 (Dermal);H312<br>Acute Tox. 4 (Oral);H302<br>Skin Irrit. 2;H315<br>STOT SE3; H335<br>Aquatic Acute 1;H400<br>(M fact. = 10) |
| (R)-p-mentha-1,8-diene                           | > 0.1 <= 1 % | 5989-27-5  | 227-813-5 | 601-029-00-7 | 01-2119529223-47 | R10<br>Xi; R38<br>R43<br>N; R50-53<br>-----<br>Flam. Liq. 3;H226<br>Skin Irrit. 2;H315<br>Skin Sens. 1;H317<br>Aquatic Acute 1;H400   |

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## POLBIO ENZYSAN 2000

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### SECTION 3 Composition/information on ingredients (continued)

**Composition of detergents** : < 5% : - Phosphonates - Anionic surfactants  
5% - 15% : - Non-ionic surfactants  
Preservatives - Perfumes  
Based on non pathogenic bacteriae

Aquatic Chronic 1;H410

### SECTION 4. First aid measures

- Eye contact : Rinse with water.  
- Ingestion : Drink two glasses of water. DO NOT INDUCE VOMITING. Seek medical advice.

### SECTION 5. Firefighting measures

**Extinguishing media**  
- Suitable extinguishing media : Carbon dioxide. Dry chemical. Water spray.  
- Unsuitable extinguishing media : Use of heavy stream of water may spread fire.  
**Flammable class** : Not flammable.  
**Protection against fire** : Wear proper protective equipment.  
**Special procedures** : Exercise caution when fighting any chemical fire.  
**Surrounding fires** : Use water spray or fog for cooling exposed containers.

### SECTION 6. Accidental release measures

**Personal precautions** : Spill area may be slippery.  
Equip cleanup crew with proper protection.  
**Environmental precautions** : Prevent entry to sewers and public waters.  
**Clean up methods** : Clean up any spills as soon as possible, using an absorbent material to collect it.  
Use suitable disposal containers.  
Dilute residues and flush.

### SECTION 7. Handling and storage

**Handling** : Handle with good industrial hygiene and safety procedures.  
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.  
Ensure prompt removal from eyes, skin and clothing.  
**General** : Avoid all unnecessary exposure.  
**Storage** : Keep container closed when not in use.  
Store at room temperature.

### SECTION 8. Exposure controls/personal protection

**Personal protection**  
- Respiratory protection : Not required.  
- Skin protection : Not required.  
- Eye protection : Not required.  
- Ingestion : When using, do not eat, drink or smoke.

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## POLBIO ENZYSAN 2000

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### SECTION 9. Physical and chemical properties

|                                 |   |
|---------------------------------|---|
| Appearance                      | : Liquid.   |
| Colour                          | : Green.<br>POLBIO ENZYSAN 2000, a natural product, can present colour variations going from light to dark green. |
| Odour                           | : mint.   |
| pH value (concentrated product) | : 7 +/- 0.5   |
| pH value in distilled water     | : 2% : 7.5 +/- 0.5  |
| Density [kg/m <sup>3</sup> ]    | : 1015 +/- 5  |
| Solubility in water             | : Complete.   |
| Other data                      | : See Heading : Information on ingredients.   |

### SECTION 10. Stability and reactivity

|                                  |                                  |
|----------------------------------|----------------------------------|
| Hazardous reactions              | : None under normal conditions.  |
| Materials to avoid               | : Do not mix with other product. |
| Hazardous decomposition products | : None under normal conditions.  |
| Hazardous properties             | : None under normal conditions.  |

### SECTION 11. Toxicological information

|            |                      |
|------------|----------------------|
| On product | : No data available. |
|------------|----------------------|

### SECTION 12. Ecological information

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

### SECTION 13. Disposal considerations

|         |  |
|---------|--|
| General | : Dispose in a safe manner in accordance with local/national regulations.<br>Avoid release to the environment. |
|---------|--|

### SECTION 14. Transport information

|                     |                  |
|---------------------|------------------|
| General information | : Not regulated. |
|---------------------|------------------|

### SECTION 15. Regulatory information

|   |  |
|---|--|
| EC Labelling  |  |
| Other   | : None.  |
| Ensure all national/local regulations are observed. |  |
| Symbol(s)   | : None.  |
| R Phrase(s)   | : None.  |
| S Phrase(s)   | : None.  |
| Warning   | : Contains : l-Carvone - (R)-p-mentha-1,8-diene. May produce an allergic reaction. |

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**POLBIO ENZYSAN 2000****2106799****SECTION 16. Other information**

**R sentences relative to raw materials mentioned in section 3** : R10 : Flammable.  
R21/22 : Harmful in contact with skin and if swallowed.  
R22 : Harmful if swallowed.  
R36 : Irritating to eyes.  
R37/38 : Irritating to respiratory system and skin.  
R38 : Irritating to skin.  
R41 : Risk of serious damage to eyes.  
R43 : May cause sensitization by skin contact.  
R50 : Very toxic to aquatic organisms.  
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Print date** : 11 / 5 / 2015

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

The information in this SDS was either obtained from measurements either calculated or retrieved from sources which we believe to be reliable. However, we cannot guarantee the completeness and absence of errors concerning the information supplied by external sources. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

**End of document****Pollet S.A.**

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## POLGREEN INDOORS

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

**Identification of the product** : Liquid.  
**Trade name** : POLGREEN INDOORS  
**Use** : Industrial and institutional detergent  
See product bulletin for detailed information.  
**Company identification** : See distributor.  
**Name and function of the responsible person** : adress email : [msds@pollet.eu](mailto:msds@pollet.eu)  
tél 0032 69 553 893 or 883  
Laboratory of Pollet S.A.

**SECTION 2 Hazards identification****2.1. Classification of the substance or mixture****Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

Not regulated.

**2.2. Label elements****Labelling Regulation EC 1272/2008 (CLP)**

- **Hazard statements** : Not regulated.
- **Precautionary statements**

**2.3. Other hazards**

Other hazards : None under normal conditions.

**SECTION 3 Composition/information on ingredients****3.1./3.2. Substance / Preparation****Substance / Preparation** : Preparation.

This product is not considered to be hazardous but contains hazardous components.

| Substance name                    | Contents      | CAS No     | EC No     | Index No     | REACH            | Classification  |
|-----------------------------------|---------------|------------|-----------|--------------|------------------|---|
| Alcohols, C9-11, ethoxylated      | : > 5 <= 15 % | 68439-46-3 | ----      | ----         | ----             | Xn; R22<br>Xi; R36<br>-----<br>Eye Irrit. 2;H319<br>Acute Tox. 4 (Oral);H302                  |
| Dipropyleneglycol monomethylether | : > 1 <= 5 %  | 34590-94-8 | 252-104-2 | ----         | ----             | Not classified. (DSD/DPD)<br>Not classified. (GHS)  |
| Propan-2-ol                       | : > 1 <= 5 %  | 67-63-0    | 200-661-7 | 603-117-00-0 | 01-2119457558-25 | F; R11<br>R67<br>Xi; R36<br>-----<br>Flam. Liq. 2;H225<br>Eye Irrit. 2;H319<br>STOT SE3; H336 |

**Composition of detergents** : 5% - 15% : - Non-ionic surfactants  
Perfumes - Preservatives

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## POLGREEN INDOORS

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### SECTION 4. First aid measures

- Eye contact : Rinse immediately with plenty of water.
- Ingestion : Drink two glasses of water. DO NOT INDUCE VOMITING. Seek medical advice.

### SECTION 5. Firefighting measures

- Extinguishing media**
- Suitable extinguishing media : Carbon dioxide. Dry chemical. Water spray.
- Unsuitable extinguishing media : Use of heavy stream of water may spread fire.
- Flammable class** : Not flammable.
- Protection against fire** : Wear proper protective equipment.
- Special procedures** : Exercise caution when fighting any chemical fire.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

### SECTION 6. Accidental release measures

- Personal precautions** : Spill area may be slippery.  
Equip cleanup crew with proper protection.
- Environmental precautions** : Prevent entry to public waters.
- Clean up methods** : Clean up any spills as soon as possible, using an absorbent material to collect it.  
Use suitable disposal containers.  
Dilute residues and flush.

### SECTION 7. Handling and storage

- Handling** : Ensure prompt removal from eyes, skin and clothing.  
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.  
Handle with good industrial hygiene and safety procedures.
- General** : Avoid all unnecessary exposure.
- Storage** : Keep container closed when not in use.  
Store at room temperature.

### SECTION 8. Exposure controls/personal protection

- Occupational Exposure Limits** : Dipropyleneglycol monomethylether : TLV<sup>®</sup> -TWA [mg/m<sup>3</sup>] : 308  
Dipropyleneglycol monomethylether : TLV<sup>®</sup> -TWA [ppm] : 50  
Propan-2-ol : TLV<sup>®</sup> -TWA [ppm] : 400  
Propan-2-ol : TLV<sup>®</sup> -STEL [mg/m<sup>3</sup>] : 1230  
Propan-2-ol : TLV<sup>®</sup> -STEL [ppm] : 200  
Propan-2-ol : TLV<sup>®</sup> -TWA [mg/m<sup>3</sup>] : 983
- Personal protection**
- Eye protection : Eye protection should only be necessary where liquid could be splashed or sprayed.
- Ingestion : When using, do not eat, drink or smoke.

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## POLGREEN INDOORS

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### SECTION 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### 9.1.a. Appearance

Appearance : Liquid.  
Colour : Blue.

##### 9.1.b. Odour

Odour : Fruity.

##### 9.1.d. pH

pH value (concentrated product) : 7.5 +/- 0.5  
pH value in distilled water : 0,4% : 8 +/- 0.5

##### 9.1.m. Relative density

Density [kg/m<sup>3</sup>] : 1000 +/- 5

##### 9.1.n. Solubility

Solubility in water : Complete.

#### 9.2. Other information

Other data : See Heading : Information on ingredients.

### SECTION 10. Stability and reactivity

Hazardous reactions : None under normal conditions.  
Materials to avoid : Do not mix with other product.  
Hazardous decomposition products : None under normal conditions.  
Hazardous properties : None under normal conditions.

### SECTION 11. Toxicological information

On product : No data available.

### SECTION 12. Ecological information

On product : product replying to the EU Ecolabel as all-purpose cleaner (2011/383/UE)  
On ingredients : The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### SECTION 13. Disposal considerations

General : Dispose in a safe manner in accordance with local/national regulations.  
Avoid release to the environment.

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# SAFETY DATA SHEET

Page : 4

Revised edition no : 8

Date : 8 / 5 / 2015

Supersedes : 28 / 3 / 2013

## POLGREEN INDOORS

2109199

### SECTION 14. Transport information

General information : Not regulated.

### SECTION 15. Regulatory information

#### EC Labelling

Other : None.

Ensure all national/local regulations are observed.

Symbol(s) : None.

R Phrase(s) : None.

S Phrase(s) : S2 : Keep out of the reach of children.  
S50 : Do not mix with other product.

### SECTION 16. Other information

R sentences relative to raw materials mentioned in section 3 : R11 : Highly flammable.  
R22 : Harmful if swallowed.  
R36 : Irritating to eyes.  
R67 : Vapours may cause drowsiness and dizziness.

Print date : 11 / 5 / 2015

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

The information in this SDS was either obtained from measurements either calculated or retrieved from sources which we believe to be reliable. However, we cannot guarantee the completeness and absence of errors concerning the information supplied by external sources. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document

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# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

|                                       |   |
|---------------------------------------|---|
| <b>Product Name/Trade Name</b>        | <b>Purebright Ultra Germicidal Bleach</b>   |
| <b>Manufacturer:</b>                  | Ref# 40000002<br>KIK CUSTOM PRODUCTS<br>2921 Corder Street<br>Houston, TX USA 77054 |
| <b>Contact Number:</b>                | Tel: 905-660-0444   |
| <b>24Hr Emergency Contact Number:</b> | Tel: 1-800-255-3924   |
| <b>Prepared By:</b>                   | KIK CUSTOM PRODUCTS Laboratory  |
| <b>Date Last Revised:</b>             | <b>October 18, 2011</b>   |
| <b>Replaces Date:</b>                 | <b>September 27, 2011</b>   |

## Section 2. Hazardous Ingredients

| Ingredient          | Concentration | CAS#      | Worker Exposure Limit        |
|---------------------|---------------|-----------|------------------------------|
| Sodium Hypochlorite | 5.0-6.0%      | 7681-52-9 | not established              |
| Sodium Hydroxide    | >1.0 %        | 1310-73-2 | 2 mg/m <sup>3</sup> – TLV-C* |

\* TLV-C = ACGIH Threshold Limit Value – Ceiling  
None of the ingredients in this product are on the IARC or NTP carcinogen lists.

## Section 3. Hazards Identification

| Route of Entry |     |           |     |
|----------------|-----|-----------|-----|
| Skin           | Yes | Eye       | Yes |
| Inhalation     | Yes | Ingestion | Yes |

**Effects of Exposure:** May cause substantial but temporary eye injury. May irritate skin. When ingested, may cause nausea and vomiting. Inhalation of vapor will irritate nose, throat and lungs.

**Effects of acute exposure:** Inhalation of mist or vapor may cause breathing difficulty. Its corrosiveness may cause severe irritation to eyes and skin. May cause permanent damage if not treated properly. Ingestion can cause corrosion of mucous membranes, severe esophageal burns and perforation of esophagus or stomach.

**Effects of chronic exposure:** Not Known.

Under normal consumer use conditions, the likelihood of any adverse health effects is low. The following medical conditions may be aggravated by exposure to high concentration of vapor or mist: heart conditions or chronic respiratory problems such as asthma, bronchitis or obstructive lung disease. Some clinical tests conducted on intact skin with sodium hypochlorite liquid bleach found no sensitization in the test subjects.

## Section 4. First Aid Measures

|  |
|--|
| <b>Skin:</b> Remove contaminated clothing. Wash with copious amount of water. If irritation persists, call a doctor.   |
| <b>Eyes:</b> Flush eyes with cool running water holding eyelids apart to ensure thorough rinsing for 15 minutes. Remove contact lenses. See a doctor immediately.      |
| <b>Inhalation:</b> Move to fresh air and restore breathing,. If breathing problems develop, call a doctor.   |
| <b>Ingestion:</b> DO NOT INDUCE VOMITING! Drink large amounts of water. Do not give anything by mouth to a convulsing or unconscious person. See a doctor immediately. |
| <b>General Advice:</b> If irritation occurs, see a doctor immediately.   |



**Section 5. Preventative Measures**

**Protective Equipment**

Gloves: Impervious PVC or Neoprene.  
 Eyes: Safety glasses at the very least. Chemical splash goggles. Face shield also helpful.  
 Respiratory: Not normally required. Footwear: Protect shoes and feet when using product for floor cleaning.

**LEAK AND SPILL PROTECTION:**

Small spills: Dilute product by flooding area with large quantity of water and flush to sanitary sewer.  
 Large spills: Contain run-off by diking with suitable material. Soak up liquid on inert absorbent and transfer to approved container. Prevent spill from entering sewers or waterways

**WASTE DISPOSAL:** Reclaim or dispose in accordance with local regulations.

**STORAGE REQUIREMENTS:** Store in a cool, dry and well-ventilated area.

**Section 6. Physical Data**

|                   |                   |                            |               |
|-------------------|-------------------|----------------------------|---------------|
| <b>State</b>      | Liquid            | <b>pH</b>                  | 12.6 maximum  |
| <b>Appearance</b> | Clear Pale yellow | <b>Specific Gravity</b>    | 1.080 minimum |
| <b>Odor</b>       | Typical Bleach    | <b>Solubility in water</b> | complete      |

**Section 7. Fire & Explosion**

Not flammable nor explosive

**Section 8. Reactivity Data**

Chemical Stability: Stable under normal use and storage conditions.

Incompatible Conditions: YES X NO

Incompatible Substances: Acids, ammonia, urea, metals & oxidizers.

**Section 9. Regulatory Information**

**WHIMS:**

Health: 2  
 Flammability: 0  
 Reactivity: 1

**DOT** : Not Restricted

As the handling and use of products under user's conditions are beyond our control, no warranty, expressed or implied, is made concerning this product. The information contained herein is offered only as a guide to the handling of this specific material and is not intended to be all-inclusive in the manner and conditions of use and handling. The user assumes all risks of use or handling, whether or not in accordance with any directions or suggestions of the manufacturer. Manufacturer shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our product.

## Section 16. Other information

Version : 3

Key to abbreviations : ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

References : Not available.

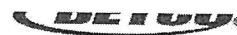
Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# SAFETY DATA SHEET



Quat-Stat SC

## Section 1. Identification

GHS product identifier : Quat-Stat SC  
Other means of identification : Not available.  
Product type : Liquid.

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

Not applicable.

Supplier's details : Betco Corporation  
1001 Brown Avenue  
Toledo, OH 43607  
www.betco.com  
888-462-3826

Emergency telephone number (with hours of operation) : Chemtrec 800-424-9300 (24 Hour)

## Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of nonpesticide chemicals. Please read complete product label.

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3  
SKIN CORROSION/IRRITATION - Category 1  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
CARCINOGENICITY - Category 1B

### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Flammable liquid and vapor.  
Causes severe skin burns and eye damage.  
May cause cancer. (Previous statements per OSHA)  
Corrosive. Causes irreversible eye damage and skin burns.  
Harmful if swallowed and/or if absorbed through the skin.  
(Previous statements per EPA)

### Precautionary statements

Prevention :

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves: < 1 hour (breakthrough time): butyl rubber. Wear eye or face protection: Recommended: splash goggles. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Wash hands thoroughly after handling.



## Section 2. Hazards identification

|   |  |
|---|--|
| <b>Response</b>                         | : IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. |
| <b>Storage</b>                          | : Store locked up. Store in a well-ventilated place. Keep cool.  |
| <b>Disposal</b>                         | : Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
| <b>Hazards not otherwise classified</b> | : None known.  |

## Section 3. Composition/information on ingredients

|                                      |                  |
|--------------------------------------|------------------|
| <b>Substance/mixture</b>             | : Mixture        |
| <b>Other means of identification</b> | : Not available. |

### CAS number/other identifiers

|                     |                   |
|---------------------|-------------------|
| <b>CAS number</b>   | : Not applicable. |
| <b>Product code</b> | : 340             |

| Ingredient name   | %        | CAS number |
|---|----------|------------|
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | ≥5 - <10 | 68424-85-1 |
| dodecyldimethyloctylammonium chloride                                 | ≥5 - <8  | 32426-11-2 |
| Alcohols, C12-15, ethoxylated   | ≥5 - <10 | 68131-39-5 |
| Ethyl alcohol   | ≥3 - <5  | 64-17-5    |
| didecyldimethylammonium chloride                                      | ≥3 - <5  | 7173-51-5  |
| tetrasodium ethylene diamine tetraacetate                             | ≥3 - <5  | 64-02-8    |
| dimethyldioctylammonium chloride                                      | ≥1 - <3  | 5538-94-3  |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

|                    |   |
|--------------------|---|
| <b>Eye contact</b> | : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.  |
| <b>Inhalation</b>  | : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |



## Section 4. First aid measures

- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage. (Per OSHA) Causes irreversible eye damage. (Per EPA)
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes severe burns. (Per OSHA) Causes skin burns. Harmful if absorbed through the skin. (Per EPA)
- Ingestion** : No known significant effects or critical hazards. (Per OSHA) Harmful if swallowed. (Per EPA)

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

## Section 5. Fire-fighting measures

- Specific hazards arising from the chemical** : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use

## Section 7. Handling and storage

explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Advice on general occupational hygiene

- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### Conditions for safe storage, including any incompatibilities

- : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from acids. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name | Exposure limits   |
|-----------------|---|
| Ethyl alcohol   | <p><b>ACGIH TLV (United States, 4/2014).</b><br/>STEL: 1000 ppm 15 minutes.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>TWA: 1000 ppm 8 hours.<br/>TWA: 1900 mg/m<sup>3</sup> 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b><br/>TWA: 1000 ppm 10 hours.<br/>TWA: 1900 mg/m<sup>3</sup> 10 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b><br/>TWA: 1000 ppm 8 hours.<br/>TWA: 1900 mg/m<sup>3</sup> 8 hours.</p> |

### Appropriate engineering controls

- : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Environmental exposure controls

- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eyeface protection

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: splash goggles

#### Skin protection