

**KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014**



**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier:** KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014

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

Relevant uses: Cleaner. For professional user/industrial user only.

Uses advised against (Professional user): not defined

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

KiiltoClean Oy  
Tengströminkatu 6  
PL157, 20101 Turku - FINLAND  
Phone.: +358 (0) 207710400  
asiakaspalvelu@kiiltoclean.fi  
www.kiiltoclean.fi

**1.4 Emergency telephone number:** Poison advisory center in Finland: +358 9 471 977

**SECTION 2: HAZARDS IDENTIFICATION**

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

**CLP Regulation (EC) n° 1272/2008:**

Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.

Met. Corr. 1: Corrosive to metals, Category 1, H290

Skin Corr. 1B: Skin corrosion, Category 1B, H314

**2.2 Label elements:**

**CLP Regulation (EC) n° 1272/2008:**

**Danger**



**Hazard statements:**

Met. Corr. 1: H290 - May be corrosive to metals

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

**Precautionary statements:**

P262: Do not get in eyes, on skin, or on clothing

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

P313: Get medical advice/attention

**2.3 Other hazards:**

Non-applicable

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Basic solution

**Components:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

| Identification  | Chemical name/Classification      |                              | Concentration       |
|---|-----------------------------------|------------------------------|---------------------|
| CAS: 112-34-5<br>EC: 203-961-6<br>Index: 603-096-00-8<br>REACH: 01-2119475104-44-XXXX | <b>2-(2-Butoxyethoxy) ethanol</b> |                              | <b>5 - &lt;15 %</b> |
|   | Regulation 1272/2008              | Eye Irrit. 2: H319 - Warning |                     |

- CONTINUED ON NEXT PAGE -



**KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

| Identification   | Chemical name/Classification                           |                              | Concentration      |
|--|--|------------------------------|--------------------|
| CAS: 1310-73-2<br>EC: 215-185-5<br>Index: Non-applicable<br>REACH: 01-2119457892-27-XXXX | <b>Sodium hydroxide</b> ATP CLP00                      |                              | <b>2 - &lt;5 %</b> |
|  | Regulation 1272/2008                                   | Skin Corr. 1A: H314 - Danger |                    |
| CAS: 68439-46-3<br>EC: 614-482-0<br>Index: Non-applicable<br>REACH: Non-applicable       | <b>C9-C11 fatty alcohol ethoxylate</b> Self-classified |                              | <b>1 - &lt;5 %</b> |
|  | Regulation 1272/2008                                   | Eye Irrit. 2: H319 - Warning |                    |

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

Request medical assistance immediately, showing the SDS of this product.

**By inhalation:**

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Non-applicable

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

- CONTINUED ON NEXT PAGE -

**KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014**



## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 35 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

| Identification   | Environmental limits |        |                         |
|--|----------------------|--------|-------------------------|
|  |                      |        |                         |
| 2-(2-Butoxyethoxy) ethanol<br>CAS: 112-34-5<br>EC: 203-961-6 | IOELV (8h)           | 10 ppm | 67.5 mg/m <sup>3</sup>  |
|  | IOELV (STEL)         | 15 ppm | 101.2 mg/m <sup>3</sup> |
|  | Year                 | 2015   |                         |

### DNEL (Workers):

- CONTINUED ON NEXT PAGE -

**KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014**



**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification   |            | Short exposure |                         | Long exposure          |                        |
|--|------------|----------------|-------------------------|------------------------|------------------------|
|  |            | Systemic       | Local                   | Systemic               | Local                  |
| 2-(2-Butoxyethoxy) ethanol<br>CAS: 112-34-5<br>EC: 203-961-6 | Oral       | Non-applicable | Non-applicable          | Non-applicable         | Non-applicable         |
|  | Dermal     | Non-applicable | Non-applicable          | 20 mg/kg               | Non-applicable         |
|  | Inhalation | Non-applicable | 101,2 mg/m <sup>3</sup> | 67,5 mg/m <sup>3</sup> | 67,5 mg/m <sup>3</sup> |
| Sodium hydroxide<br>CAS: 1310-73-2<br>EC: 215-185-5          | Oral       | Non-applicable | Non-applicable          | Non-applicable         | Non-applicable         |
|  | Dermal     | Non-applicable | Non-applicable          | Non-applicable         | Non-applicable         |
|  | Inhalation | Non-applicable | Non-applicable          | Non-applicable         | 1 mg/m <sup>3</sup>    |

**DNEL (General population):**

| Identification   |            | Short exposure |                        | Long exposure        |                      |
|--|------------|----------------|------------------------|----------------------|----------------------|
|  |            | Systemic       | Local                  | Systemic             | Local                |
| 2-(2-Butoxyethoxy) ethanol<br>CAS: 112-34-5<br>EC: 203-961-6 | Oral       | Non-applicable | Non-applicable         | 1,25 mg/kg           | Non-applicable       |
|  | Dermal     | Non-applicable | Non-applicable         | 10 mg/kg             | Non-applicable       |
|  | Inhalation | Non-applicable | 50,6 mg/m <sup>3</sup> | 34 mg/m <sup>3</sup> | 34 mg/m <sup>3</sup> |
| Sodium hydroxide<br>CAS: 1310-73-2<br>EC: 215-185-5          | Oral       | Non-applicable | Non-applicable         | Non-applicable       | Non-applicable       |
|  | Dermal     | Non-applicable | Non-applicable         | Non-applicable       | Non-applicable       |
|  | Inhalation | Non-applicable | Non-applicable         | Non-applicable       | 1 mg/m <sup>3</sup>  |

**PNEC:**

| Identification   |              |           |                         |           |  |
|--|--------------|-----------|-------------------------|-----------|--|
| 2-(2-Butoxyethoxy) ethanol<br>CAS: 112-34-5<br>EC: 203-961-6 | STP          | 200 mg/L  | Fresh water             | 1 mg/L    |  |
|  | Soil         | 0,4 mg/kg | Marine water            | 0,1 mg/L  |  |
|  | Intermittent | 3,9 mg/L  | Sediment (Fresh water)  | 4 mg/kg   |  |
|  | Oral         | 56 g/kg   | Sediment (Marine water) | 0,4 mg/kg |  |

**8.2 Exposure controls:**

**A.- General security and hygiene measures in the work place**

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

**C.- Specific protection for the hands**

| Pictogram                     | PPE                                       | Labelling   | CEN Standard  | Remarks  |
|-------------------------------|---|-------------|---|--|
| <br>Mandatory hand protection | NON-disposable chemical protective gloves | <br>CAT III | EN 374-1:2003<br>EN 374-3:2003/AC:2006<br>EN 420:2003+A1:2009 | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

**D.- Ocular and facial protection**

| Pictogram                     | PPE   | Labelling  | CEN Standard                    | Remarks   |
|-------------------------------|---|------------|---------------------------------|---|
| <br>Mandatory face protection | Panoramic glasses against splash/projections. | <br>CAT II | EN 166:2001<br>EN ISO 4007:2012 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

**E.- Bodily protection**

- CONTINUED ON NEXT PAGE -

**KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014**



**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Pictogram | PPE           | Labelling | CEN Standard | Remarks   |
|-----------|---------------|-----------|--------------|---|
|           | Work clothing |           |              | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2001, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. |

**F.- Additional emergency measures**

| Emergency measure | Standards                      | Emergency measure | Standards                     |
|-------------------|--------------------------------|-------------------|-------------------------------|
| Emergency shower  | ANSI Z358-1<br>ISO 3864-1:2002 | Eyewash stations  | DIN 12 899<br>ISO 3864-1:2002 |

Protective gloves complying with EN374: butylrubber, nitrile rubber, natural rubber, PVC. Breakthrough time  $\geq$  480 min, material thickness  $\geq$  0,7 mm.

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

**Appearance:**

|                          |                  |
|--------------------------|------------------|
| Physical state at 20 °C: | Liquid           |
| Appearance:              | Fluid            |
| Colour:                  | Colourless       |
| Odour:                   | Odourless        |
| Odour threshold:         | Non-applicable * |

**Volatility:**

|  |                  |
|--|------------------|
| Boiling point at atmospheric pressure: | Non-applicable * |
| Vapour pressure at 20 °C:              | Non-applicable * |
| Vapour pressure at 50 °C:              | Non-applicable * |
| Evaporation rate at 20 °C:             | Non-applicable * |

**Product description:**

|  |                        |
|--|------------------------|
| Density at 20 °C:                            | 1000 kg/m <sup>3</sup> |
| Relative density at 20 °C:                   | Non-applicable *       |
| Dynamic viscosity at 20 °C:                  | Non-applicable *       |
| Kinematic viscosity at 20 °C:                | Non-applicable *       |
| Kinematic viscosity at 40 °C:                | Non-applicable *       |
| Concentration:                               | Non-applicable *       |
| pH:  | 13                     |
| Vapour density at 20 °C:                     | Non-applicable *       |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *       |
| Solubility in water at 20 °C:                | Non-applicable *       |
| Solubility properties:                       | Water-soluble          |
| Decomposition temperature:                   | Non-applicable *       |
| Melting point/freezing point:                | Non-applicable *       |
| Explosive properties:                        | Non-applicable *       |
| Oxidising properties:                        | Non-applicable *       |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

**KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014**



**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

**Flammability:**

|                            |                        |
|----------------------------|------------------------|
| Flash Point:               | Non Flammable (>60 °C) |
| Flammability (solid, gas): | Non-applicable *       |
| Autoignition temperature:  | Non-applicable *       |
| Lower flammability limit:  | Non-applicable *       |
| Upper flammability limit:  | Non-applicable *       |

**9.2 Other information:**

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

|                    |                  |                         |                |                |
|--------------------|------------------|-------------------------|----------------|----------------|
| Shock and friction | Contact with air | Increase in temperature | Sunlight       | Humidity       |
| Not applicable     | Not applicable   | Not applicable          | Not applicable | Not applicable |

**10.5 Incompatible materials:**

|                    |                |                      |                       |                |
|--------------------|----------------|----------------------|-----------------------|----------------|
| Acids              | Water          | Combustive materials | Combustible materials | Others         |
| Avoid strong acids | Not applicable | Precaution           | Not applicable        | Not applicable |

To be avoided: zinc, aluminium, brass and copper.

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, its consumption causes burns destroying the full thickness of fabrics. For more information on the secondary effects of contact with the skin see section 2.

B- Inhalation (acute effect):

- CONTINUED ON NEXT PAGE -



**KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014**

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
  - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
  - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) - single exposure:
 

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:
 

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

Not available

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**

| Identification   | Acute toxicity |                  | Species                | Genus      |
|--|----------------|------------------|------------------------|------------|
| 2-(2-Butoxyethoxy) ethanol<br>CAS: 112-34-5<br>EC: 203-961-6 | LC50           | 1300 mg/L (96 h) | Lepomis macrochirus    | Fish       |
|  | EC50           | 2850 mg/L (24 h) | Daphnia magna          | Crustacean |
|  | EC50           | 53 mg/L (192 h)  | Microcystis aeruginosa | Algae      |
| Sodium hydroxide<br>CAS: 1310-73-2<br>EC: 215-185-5          | LC50           | 189 mg/L (48 h)  | Leuciscus idus         | Fish       |
|  | EC50           | 33 mg/L          | Crangon crangon        | Crustacean |
|  | EC50           | Non-applicable   |                        |            |

**12.2 Persistence and degradability:**

| Identification   | Degradability |             | Biodegradability |          |
|--|---------------|-------------|------------------|----------|
| 2-(2-Butoxyethoxy) ethanol<br>CAS: 112-34-5<br>EC: 203-961-6 | BOD5          | 0.25 g O2/g | Concentration    | 100 mg/L |
|  | COD           | 2.08 g O2/g | Period           | 28 days  |
|  | BOD5/COD      | 0.12        | % Biodegradable  | 92 %     |

**12.3 Bioaccumulative potential:**

- CONTINUED ON NEXT PAGE -

**KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014**



## SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification             | Bioaccumulation potential |      |
|----------------------------|---------------------------|------|
| 2-(2-Butoxyethoxy) ethanol | BCF                       | 0.46 |
| CAS: 112-34-5              | Pow Log                   | 0.56 |
| EC: 203-961-6              | Potential                 | Low  |

### 12.4 Mobility in soil:

| Identification             | Absorption/desorption |                      | Volatility |                               |
|----------------------------|-----------------------|----------------------|------------|-------------------------------|
| 2-(2-Butoxyethoxy) ethanol | Koc                   | 48                   | Henry      | 7,2E-9 Pa·m <sup>3</sup> /mol |
| CAS: 112-34-5              | Conclusion            | Very High            | Dry soil   | No                            |
| EC: 203-961-6              | Surface tension       | 3,395E-2 N/m (25 °C) | Moist soil | No                            |

### 12.5 Results of PBT and vPvB assessment:

Non-applicable

### 12.6 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

| Code      | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|-------------|--|
| 20 01 15* | Alkaline    | Dangerous                                  |

#### Type of waste (Regulation (EU) No 1357/2014):

HP4 Irritant — skin irritation and eye damage

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

### Transport of dangerous goods by land:

With regard to ADR 2015 and RID 2015:



- 14.1 UN number:** UN1824  
**14.2 UN proper shipping name:** SODIUM HYDROXIDE SOLUTION  
**14.3 Transport hazard class(es):** 8  
**Labels:** 8  
**14.4 Packing group:** II  
**14.5 Dangerous for the environment:** No  
**14.6 Special precautions for user**  
Special regulations: Non-applicable  
Tunnel restriction code: E  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

### Transport of dangerous goods by sea:

- CONTINUED ON NEXT PAGE -



**KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014**



**SECTION 14: TRANSPORT INFORMATION (continued)**

With regard to IMDG 38-16:



- |   |                           |
|---|---------------------------|
| <b>14.1 UN number:</b>  | UN1824                    |
| <b>14.2 UN proper shipping name:</b>  | SODIUM HYDROXIDE SOLUTION |
| <b>14.3 Transport hazard class(es):</b>   | 8                         |
| Labels:   | 8                         |
| <b>14.4 Packing group:</b>  | II                        |
| <b>14.5 Dangerous for the environment:</b>                                      | No                        |
| <b>14.6 Special precautions for user</b>  |                           |
| Special regulations:  | Non-applicable            |
| EmS Codes:  | F-A, S-B                  |
| Physico-Chemical properties:  | see section 9             |
| Limited quantities:   | 1 L                       |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable            |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2017:



- |   |                           |
|---|---------------------------|
| <b>14.1 UN number:</b>  | UN1824                    |
| <b>14.2 UN proper shipping name:</b>  | SODIUM HYDROXIDE SOLUTION |
| <b>14.3 Transport hazard class(es):</b>   | 8                         |
| Labels:   | 8                         |
| <b>14.4 Packing group:</b>  | II                        |
| <b>14.5 Dangerous for the environment:</b>                                      | No                        |
| <b>14.6 Special precautions for user</b>  |                           |
| Physico-Chemical properties:  | see section 9             |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable            |

**SECTION 15: REGULATORY INFORMATION**

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Regulation (EC) n°648/2004 on detergents:**

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradability criteria stipulated in Regulation (EC) n°648/2004 on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Contains more than 3 % of 2-(2-Butoxyethoxy) ethanol by weight. 1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight. 2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010. 3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows: 'Do not use in paint spraying equipment'.

**Specific provisions in terms of protecting people or the environment:**

- CONTINUED ON NEXT PAGE -



**KiiltoClean Oy - Kiilto Sartek 2 - T7014,T7014.001,T7014.005,T7014.994,41021  
T7014**

**SECTION 15: REGULATORY INFORMATION (continued)**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

Non-applicable

**Texts of the legislative phrases mentioned in section 2:**

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) n° 1272/2008:**

Eye Irrit. 2: H319 - Causes serious eye irritation

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -