

**REX SteelClean**  
**REXCHEM491758**



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

- 1.1 Product identifier:** REX SteelClean  
REXCHEM491758
- Other means of identification:**
- UFI:** 92AD-S00A-K00P-F508
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- Relevant uses (Consumer use): Cleaner  
Relevant uses (Professional users): Cleaner  
Relevant uses (Industrial user): Cleaner  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
- Rex Nordic Oy  
Mustanlähteentie 24 A  
07230 Askola FINLAND  
info@rexnordic.com  
www.rexnordic.com
- 1.4 Emergency telephone number:** General emergency number: 112, Poison Information Centre HUS: 09-471977 (Finland)

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**
- CLP Regulation (EC) No 1272/2008:**
- Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.  
Aerosol 1: Flammable aerosols, Category 1, H222  
Aerosol 1: Pressurised container: May burst if heated., H229
- 2.2 Label elements:**
- CLP Regulation (EC) No 1272/2008:**
- Danger**
- 
- Hazard statements:**
- Aerosol 1: H222 - Extremely flammable aerosol.  
Aerosol 1: H229 - Pressurised container: May burst if heated.
- Precautionary statements:**
- P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211: Do not spray on an open flame or other ignition source.  
P251: Do not pierce or burn, even after use.  
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F  
P501: Dispose of contents/container according to the separated collection system used in your municipality.
- 2.3 Other hazards:**
- Product does not meet PBT/vPvB criteria  
Endocrine-disrupting properties: The product does not meet the criteria.

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

- 3.1 Substance:**
- Not relevant
- 3.2 Mixture:**
- Chemical description:** Aerosol
- Components:**
- In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

- CONTINUED ON NEXT PAGE -

**REX SteelClean**  
**REXCHEM491758**



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

| Identification                                                                        | Chemical name/Classification                                     |                                                                                                                            | Concentration            |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------|
| CAS: 106-97-8<br>EC: 203-448-7<br>Index: 601-004-00-0<br>REACH: 01-2119474691-32-XXXX | <b>Butane, does not contain 1,3-butadiene 0,1%<sup>(1)</sup></b> | ATP CLP00<br>Regulation 1272/2008 Flam. Gas 1A: H220; Press. Gas: H280 - Danger                                            | <br><b>25 - &lt;50%</b>  |
| CAS: 74-98-6<br>EC: 200-827-9<br>Index: 601-003-00-5<br>REACH: 01-2119486944-21-XXXX  | <b>Propane<sup>(1)</sup></b>                                     | ATP CLP00<br>Regulation 1272/2008 Flam. Gas 1A: H220; Press. Gas: H280 - Danger                                            | <br><b>2.5 - &lt;10%</b> |
| 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<sup>(2)</sup></b>                   | ATP CLP00<br>Regulation 1272/2008 Eye Irrit. 2: H319 - Warning                                                             | <br><b>1 - &lt;2.5%</b>  |
| CAS: 111-76-2<br>EC: 203-905-0<br>Index: 603-014-00-0<br>REACH: 01-2119475108-36-XXXX | <b>2-butoxyethanol<sup>(2)</sup></b>                             | ATP ATP18<br>Regulation 1272/2008 Acute Tox. 3: H331; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Danger | <br><b>1 - &lt;2.5%</b>  |
| CAS: 64-17-5<br>EC: 200-578-6<br>Index: 603-002-00-5<br>REACH: 01-2119457610-43-XXXX  | <b>ethanol<sup>(1)</sup></b>                                     | ATP CLP00<br>Regulation 1272/2008 Flam. Liq. 2: H225 - Danger                                                              | <br><b>1 - &lt;2.5%</b>  |

<sup>(1)</sup> Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

<sup>(2)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

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

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification                                    | Acute toxicity       |              | Genus |
|---------------------------------------------------|----------------------|--------------|-------|
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0 | LD50 oral            | 1200 mg/kg   | Rat   |
|                                                   | LD50 dermal          | Not relevant |       |
|                                                   | LC50 inhalation mist | 0,5 mg/L *   |       |

\*Equivalent ATE value of the substance applicable to the exposure route of the product. For the ATE value associated with the exposure route of the substance, see section 11.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

**By eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**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:**

Not relevant

- CONTINUED ON NEXT PAGE -

**REX SteelClean  
REXCHEM491758**



## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

#### Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

#### Unsuitable extinguishing media:

Water jet

### 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 self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EEC.

#### Additional provisions:

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

### 6.2 Environmental precautions:

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

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

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

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

- CONTINUED ON NEXT PAGE -

**REX SteelClean  
REXCHEM491758**



**SECTION 7: HANDLING AND STORAGE (continued)**

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

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.- Specific storage requirements

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 6 Months

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 workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification                                                |  | Occupational exposure limits |        |                         |
|---------------------------------------------------------------|--|------------------------------|--------|-------------------------|
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5 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> |
| 2-butoxyethanol <sup>(1)</sup><br>CAS: 111-76-2 EC: 203-905-0 |  | IOELV (8h)                   | 20 ppm | 98 mg/m <sup>3</sup>    |
|                                                               |  | IOELV (STEL)                 | 50 ppm | 246 mg/m <sup>3</sup>   |

<sup>(1)</sup> Skin

**DNEL (Workers):**

| Identification                                              |            | Short exposure         |                         | Long exposure          |                        |
|-------------------------------------------------------------|------------|------------------------|-------------------------|------------------------|------------------------|
|                                                             |            | Systemic               | Local                   | Systemic               | Local                  |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6 | Oral       | Not relevant           | Not relevant            | Not relevant           | Not relevant           |
|                                                             | Dermal     | Not relevant           | Not relevant            | 83 mg/kg               | Not relevant           |
|                                                             | Inhalation | Not relevant           | 101,2 mg/m <sup>3</sup> | 67,5 mg/m <sup>3</sup> | 67,5 mg/m <sup>3</sup> |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0           | Oral       | Not relevant           | Not relevant            | Not relevant           | Not relevant           |
|                                                             | Dermal     | 89 mg/kg               | Not relevant            | 125 mg/kg              | Not relevant           |
|                                                             | Inhalation | 1091 mg/m <sup>3</sup> | 246 mg/m <sup>3</sup>   | 98 mg/m <sup>3</sup>   | Not relevant           |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                    | Oral       | Not relevant           | Not relevant            | Not relevant           | Not relevant           |
|                                                             | Dermal     | Not relevant           | Not relevant            | 343 mg/kg              | Not relevant           |
|                                                             | Inhalation | Not relevant           | Not relevant            | 950 mg/m <sup>3</sup>  | Not relevant           |

**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       | Not relevant          | Not relevant           | 5 mg/kg                | Not relevant           |
|                                                             | Dermal     | Not relevant          | Not relevant           | 50 mg/kg               | Not relevant           |
|                                                             | Inhalation | Not relevant          | 60,7 mg/m <sup>3</sup> | 40,5 mg/m <sup>3</sup> | 40,5 mg/m <sup>3</sup> |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0           | Oral       | Not relevant          | Not relevant           | 6,3 mg/kg              | Not relevant           |
|                                                             | Dermal     | 89 mg/kg              | Not relevant           | 75 mg/kg               | Not relevant           |
|                                                             | Inhalation | 426 mg/m <sup>3</sup> | 147 mg/m <sup>3</sup>  | 59 mg/m <sup>3</sup>   | Not relevant           |

- CONTINUED ON NEXT PAGE -

**REX SteelClean**  
**REXCHEM491758**



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

| Identification |            | Short exposure |              | Long exposure         |              |
|----------------|------------|----------------|--------------|-----------------------|--------------|
|                |            | Systemic       | Local        | Systemic              | Local        |
| ethanol        | Oral       | Not relevant   | Not relevant | 87 mg/kg              | Not relevant |
| CAS: 64-17-5   | Dermal     | Not relevant   | Not relevant | 206 mg/kg             | Not relevant |
| EC: 200-578-6  | Inhalation | Not relevant   | Not relevant | 114 mg/m <sup>3</sup> | Not relevant |

**PNEC:**

| Identification                                              |              |            |                         |            |  |
|-------------------------------------------------------------|--------------|------------|-------------------------|------------|--|
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6 | STP          | 200 mg/L   | Fresh water             | 1,1 mg/L   |  |
|                                                             | Soil         | 0,32 mg/kg | Marine water            | 0,11 mg/L  |  |
|                                                             | Intermittent | 11 mg/L    | Sediment (Fresh water)  | 4,4 mg/kg  |  |
|                                                             | Oral         | 0,056 g/kg | Sediment (Marine water) | 0,44 mg/kg |  |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0           | STP          | 463 mg/L   | Fresh water             | 8,8 mg/L   |  |
|                                                             | Soil         | 2,33 mg/kg | Marine water            | 0,88 mg/L  |  |
|                                                             | Intermittent | 26,4 mg/L  | Sediment (Fresh water)  | 34,6 mg/kg |  |
|                                                             | Oral         | 0,02 g/kg  | Sediment (Marine water) | 3,46 mg/kg |  |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                    | STP          | 580 mg/L   | Fresh water             | 0,96 mg/L  |  |
|                                                             | Soil         | 0,63 mg/kg | Marine water            | 0,79 mg/L  |  |
|                                                             | Intermittent | 2,75 mg/L  | Sediment (Fresh water)  | 3,6 mg/kg  |  |
|                                                             | Oral         | 0,38 g/kg  | Sediment (Marine water) | 2,9 mg/kg  |  |

**8.2 Exposure controls:**

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective 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

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

Not relevant

D.- Eye and face protection

Not relevant

E.- Body protection

Not relevant

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

**Environmental exposure controls:**

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |              |
|---------------------------|--------------|
| V.O.C. (Supply):          | 52 % weight  |
| V.O.C. density at 20 °C:  | Not relevant |
| Average carbon number:    | 4            |
| Average molecular weight: | 82,15 g/mol  |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

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

- CONTINUED ON NEXT PAGE -



**REX SteelClean**  
**REXCHEM491758**

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

For complete information see the product datasheet.

**Appearance:**

|                          |                |
|--------------------------|----------------|
| Physical state at 20 °C: | Aerosol        |
| Appearance:              | Fluid          |
| Colour:                  | Colourless     |
| Odour:                   | Characteristic |
| Odour threshold:         | Not relevant * |

**Volatility:**

|                                        |                      |
|----------------------------------------|----------------------|
| Boiling point at atmospheric pressure: | -42 °C (Propellant)  |
| Vapour pressure at 20 °C:              | Not relevant *       |
| Vapour pressure at 50 °C:              | <300000 Pa (300 kPa) |
| Evaporation rate at 20 °C:             | Not relevant *       |

**Product description:**

|                                              |                |
|----------------------------------------------|----------------|
| Density at 20 °C:                            | Not relevant * |
| Relative density at 20 °C:                   | Not relevant * |
| Dynamic viscosity at 20 °C:                  | Not relevant * |
| Kinematic viscosity at 20 °C:                | Not relevant * |
| Kinematic viscosity at 40 °C:                | Not relevant * |
| Concentration:                               | Not relevant * |
| pH:                                          | ~11,3 - 11,5   |
| Relative vapour density at 20 °C:            | Not relevant * |
| Partition coefficient n-octanol/water 20 °C: | Not relevant * |
| Solubility in water at 20 °C:                | Not relevant * |
| Solubility properties:                       | Not relevant * |
| Decomposition temperature:                   | Not relevant * |
| Melting point/freezing point:                | Not relevant * |
| Recipient pressure:                          | Not relevant * |

**Flammability:**

|                            |                     |
|----------------------------|---------------------|
| Flash Point:               | Not relevant *      |
| Flammability (solid, gas): | Not relevant *      |
| Autoignition temperature:  | 410 °C (Propellant) |
| Lower flammability limit:  | Not relevant *      |
| Upper flammability limit:  | Not relevant *      |

**Particle characteristics:**

|                             |                |
|-----------------------------|----------------|
| Median equivalent diameter: | Not relevant * |
|-----------------------------|----------------|

**9.2 Other information:**

**Information with regard to physical hazard classes:**

|                                                              |                |
|--------------------------------------------------------------|----------------|
| Explosive properties:                                        | Not relevant * |
| Oxidising properties:                                        | Not relevant * |
| Corrosive to metals:                                         | Not relevant * |
| Heat of combustion:                                          | Not relevant * |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant * |

**Other safety characteristics:**

|                           |                |
|---------------------------|----------------|
| Surface tension at 20 °C: | Not relevant * |
|---------------------------|----------------|

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

- CONTINUED ON NEXT PAGE -

**REX SteelClean**  
**REXCHEM491758**



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

Refraction index: Not relevant \*

\*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 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated 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       |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Precaution         | Precaution       | Risk of combustion      | Avoid direct impact | Not applicable |

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

**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 hazard classes as defined in Regulation (EC) No 1272/2008:**

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

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health.

**Dangerous health implications:**

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

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- CONTINUED ON NEXT PAGE -

**REX SteelClean**  
**REXCHEM491758**



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

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
- IARC: ethanol (1: Carcinogenic to humans); 2-butoxyethanol (3: Not classifiable as to its carcinogenicity to humans)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous 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 hazardous 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 hazardous with sensitising effects. 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 hazardous 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 hazardous 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 hazardous 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 hazardous 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 hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

| Identification                                                                | Acute toxicity         |                  | Genus  |
|-------------------------------------------------------------------------------|------------------------|------------------|--------|
| Propane<br>CAS: 74-98-6<br>EC: 200-827-9                                      | LD50 oral              | >2000 mg/kg      |        |
|                                                                               | LD50 dermal            | >2000 mg/kg      |        |
|                                                                               | LC50 inhalation gases  | >20000 mg/L      |        |
| Butane, does not contain 1,3-butadiene 0,1%<br>CAS: 106-97-8<br>EC: 203-448-7 | LD50 oral              | >2000 mg/kg      |        |
|                                                                               | LD50 dermal            | >2000 mg/kg      |        |
|                                                                               | LC50 inhalation gases  | >20000 mg/L      |        |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                                      | LD50 oral              | 6200 mg/kg       | Rat    |
|                                                                               | LD50 dermal            | 20000 mg/kg      | Rabbit |
|                                                                               | LC50 inhalation vapour | 124,7 mg/L (4 h) | Rat    |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6                   | LD50 oral              | >2000 mg/kg      |        |
|                                                                               | LD50 dermal            | >2000 mg/kg      |        |
|                                                                               | LC50 inhalation vapour | >20 mg/L         |        |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0                             | LD50 oral              | 1200 mg/kg       | Rat    |
|                                                                               | LD50 dermal            | >2000 mg/kg      |        |
|                                                                               | LC50 inhalation vapour | 3 mg/L           |        |

Only the physical form mist can occur during any reasonably expected use of the product, including when the product is used to produce a new product.

**11.2 Information on other hazards:**

**Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

Not relevant

**SECTION 12: ECOLOGICAL INFORMATION**

- CONTINUED ON NEXT PAGE -



**REX SteelClean**  
**REXCHEM491758**



**SECTION 12: ECOLOGICAL INFORMATION (continued)**

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

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

**12.1 Toxicity:**

**Acute toxicity:**

| Identification                                              | Concentration |                   | 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      |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0           | LC50          | 1490 mg/L (96 h)  | Lepomis macrochirus             | Fish       |
|                                                             | EC50          | 1815 mg/L (48 h)  | Daphnia magna                   | Crustacean |
|                                                             | EC50          | 911 mg/L (72 h)   | Pseudokirchneriella subcapitata | Algae      |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                    | LC50          | 11000 mg/L (96 h) | Alburnus alburnus               | Fish       |
|                                                             | EC50          | 9268 mg/L (48 h)  | Daphnia magna                   | Crustacean |
|                                                             | EC50          | 1450 mg/L (192 h) | Microcystis aeruginosa          | Algae      |

**Chronic toxicity:**

| Identification                                 | Concentration |          | Species            | Genus      |
|------------------------------------------------|---------------|----------|--------------------|------------|
| 2-butoxyethanol<br>CAS: 111-76-2 EC: 203-905-0 | NOEC          | 100 mg/L | Danio rerio        | Fish       |
|                                                | NOEC          | 100 mg/L | Daphnia magna      | Crustacean |
| ethanol<br>CAS: 64-17-5 EC: 200-578-6          | NOEC          | 250 mg/L | Danio rerio        | Fish       |
|                                                | NOEC          | 2 mg/L   | Ceriodaphnia dubia | Crustacean |

**12.2 Persistence and degradability:**

**Substance-specific information:**

| 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 %     |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0           | BOD5          | 0,71 g O2/g  | Concentration    | 100 mg/L |
|                                                             | COD           | 2,2 g O2/g   | Period           | 14 days  |
|                                                             | BOD5/COD      | 0,32         | % Biodegradable  | 96 %     |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                    | BOD5          | Not relevant | Concentration    | 100 mg/L |
|                                                             | COD           | Not relevant | Period           | 14 days  |
|                                                             | BOD5/COD      | Not relevant | % Biodegradable  | 89 %     |

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

| Identification                                                                | Bioaccumulation potential |          |
|-------------------------------------------------------------------------------|---------------------------|----------|
| Butane, does not contain 1,3-butadiene 0,1%<br>CAS: 106-97-8<br>EC: 203-448-7 | BCF                       | 33       |
|                                                                               | Pow Log                   | 2.89     |
|                                                                               | Potential                 | Moderate |
| Propane<br>CAS: 74-98-6<br>EC: 200-827-9                                      | BCF                       | 13       |
|                                                                               | Pow Log                   | 2.86     |
|                                                                               | Potential                 | Low      |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6                   | BCF                       | 0.46     |
|                                                                               | Pow Log                   | 0.56     |
|                                                                               | Potential                 | Low      |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0                             | BCF                       | 3        |
|                                                                               | Pow Log                   | 0.83     |
|                                                                               | Potential                 | Low      |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                                      | BCF                       | 3        |
|                                                                               | Pow Log                   | -0.31    |
|                                                                               | Potential                 | Low      |

**12.4 Mobility in soil:**

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**REX SteelClean**  
**REXCHEM491758**



**SECTION 12: ECOLOGICAL INFORMATION (continued)**

| Identification                                                                | Absorption/desorption |                      | Volatility |                                 |
|-------------------------------------------------------------------------------|-----------------------|----------------------|------------|---------------------------------|
| Butane, does not contain 1,3-butadiene 0,1%<br>CAS: 106-97-8<br>EC: 203-448-7 | Koc                   | 900                  | Henry      | 96258,75 Pa·m <sup>3</sup> /mol |
|                                                                               | Conclusion            | Low                  | Dry soil   | Yes                             |
|                                                                               | Surface tension       | 1,187E-2 N/m (25 °C) | Moist soil | Yes                             |
| Propane<br>CAS: 74-98-6<br>EC: 200-827-9                                      | Koc                   | 460                  | Henry      | 71636,78 Pa·m <sup>3</sup> /mol |
|                                                                               | Conclusion            | Moderate             | Dry soil   | Yes                             |
|                                                                               | Surface tension       | 7,02E-3 N/m (25 °C)  | Moist soil | Yes                             |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6                   | Koc                   | 48                   | Henry      | 7,2E-9 Pa·m <sup>3</sup> /mol   |
|                                                                               | Conclusion            | Very High            | Dry soil   | Not relevant                    |
|                                                                               | Surface tension       | 3,395E-2 N/m (25 °C) | Moist soil | Not relevant                    |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0                             | Koc                   | 8                    | Henry      | 1,621E-1 Pa·m <sup>3</sup> /mol |
|                                                                               | Conclusion            | Very High            | Dry soil   | Not relevant                    |
|                                                                               | Surface tension       | 2,729E-2 N/m (25 °C) | Moist soil | Yes                             |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                                      | Koc                   | 1                    | Henry      | 4,61E-1 Pa·m <sup>3</sup> /mol  |
|                                                                               | Conclusion            | Very High            | Dry soil   | Yes                             |
|                                                                               | Surface tension       | 2,339E-2 N/m (25 °C) | Moist soil | Yes                             |

**12.5 Results of PBT and vPvB assessment:**

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

**12.7 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

| Code      | Description                                                                     | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---------------------------------------------------------------------------------|--------------------------------------------|
| 16 05 04* | gases in pressure containers (including halons) containing hazardous substances | Hazardous                                  |

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

HP3 Flammable

**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-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 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 2025 and RID 2025:

**REX SteelClean  
REXCHEM491758**



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



- 14.1 UN number or ID number:** UN1950  
**14.2 UN proper shipping name:** AEROSOLS  
**14.3 Transport hazard class(es):** 2  
 Labels: 2.1  
**14.4 Packing group:** N/A  
**14.5 Environmental hazards:** No  
**14.6 Special precautions for user**  
 Special regulations: 190, 327, 344, 625  
 Tunnel restriction code: D  
 Physico-Chemical properties: see section 9  
 Limited quantities: 1 L  
**14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by sea:**

With regard to IMDG 42-24:



- 14.1 UN number or ID number:** UN1950  
**14.2 UN proper shipping name:** AEROSOLS  
**14.3 Transport hazard class(es):** 2  
 Labels: 2.1  
**14.4 Packing group:** N/A  
**14.5 Marine pollutant:** No  
**14.6 Special precautions for user**  
 Special regulations: 63, 959, 190, 277, 327, 344  
 EmS Codes: F-D, S-U  
 Physico-Chemical properties: see section 9  
 Limited quantities: 1 L  
 Segregation group: Not relevant  
**14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2026:



- 14.1 UN number or ID number:** UN1950  
**14.2 UN proper shipping name:** AEROSOLS, flammable  
**14.3 Transport hazard class(es):** 2  
 Labels: 2.1  
**14.4 Packing group:** N/A  
**14.5 Environmental hazards:** No  
**14.6 Special precautions for user**  
 Physico-Chemical properties: see section 9  
**14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**SECTION 15: REGULATORY INFORMATION**

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

- Article 95, REGULATION (EU) No 528/2012: *ethanol (64-17-5) - PT: (1, 2, 4, 6)*
- Candidates substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

**Regulation (EC) No 648/2004 on detergents:**

- CONTINUED ON NEXT PAGE -



**REX SteelClean**  
**REXCHEM491758**

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

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

**Labelling for contents:**

| Component              | Concentration interval |
|------------------------|------------------------|
| Aliphatic hydrocarbons | % (w/w) $\geq 30$      |

**Seveso III:**

| Section | Description        | Lower-tier requirements | Upper-tier requirements |
|---------|--------------------|-------------------------|-------------------------|
| P3a     | FLAMMABLE AEROSOLS | 150.000                 | 500.000                 |

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

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

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

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, 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)

Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers

Commission Directive 94/1/EC of 6 January 1994 adapting some technicalities of Council Directive 75/324/EEC on the approximation of the laws of the relating Member States to aerosol dispensers

Commission Directive 2008/47/EC of 8 April 2008 amending, for the purposes of adapting to technical progress, Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers

Commission Directive 2013/10/EU of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

COMMISSION DIRECTIVE (EU) 2016/2037 of 21 November 2016 amending Council Directive 75/324/EEC as regards the maximum allowable pressure of aerosol dispensers and to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

**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:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. 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 (COMMISSION REGULATION (EU) 2020/878).

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

Not relevant

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

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

**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) No 1272/2008:**

- CONTINUED ON NEXT PAGE -

**REX SteelClean**  
**REXCHEM491758**



**SECTION 16: OTHER INFORMATION (continued)**

Acute Tox. 3: H331 - Toxic if inhaled.  
Acute Tox. 4: H302 - Harmful if swallowed.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Flam. Gas 1A: H220 - Extremely flammable gas.  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.  
Press. Gas: H280 - Contains gas under pressure, may explode if heated.  
Skin Irrit. 2: H315 - Causes skin irritation.

**Classification procedure:**

Aerosol 1: Calculation method  
Aerosol 1: Calculation method

**Advice related to training:**

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

**Principal bibliographical sources:**

<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: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer

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 -