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

1.1. Product identifier
Mixture identification
Trade name: CLEANER & DEGREASER

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Detergent for hard surfaces.
Professional use (SU22) - Products for washing and cleaning (PC35)

Uses advised against:
Different uses than recommended. Do not use in combination with other products.

1.3. Details of the supplier of the safety data sheet
Manufacturer:
SUTTER INDUSTRIES s.p.a. - Società con Unico Socio
15060 Borghetto Borbera (AL) Italia
Tel. +39 0143 631.1
Competent person responsible for the safety data sheet:
regulatory.affairs@sutter.it

1.4. Emergency telephone number
+39 0143 631.1 mon-fri 9.00/17.00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)

- Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
- Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements
Hazard pictograms:

Danger
Hazard statements:
H314 Causes severe skin burns and eye damage.

Precautionary statements:
P280 Wear eye protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/ shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
Safety Data Sheet
CLEANER & DEGREASER

Special Provisions:
EUH210 Only for professional use. Safety data sheet available on request.

Contains
SODIUM DODECYLBENZENE SULFONATE
SODIUM METASILICATE PENTAHYDRATE
ISOTRIDECANOL ETHOXYLATED

Product contents:
soap, anionic surfactants, phosphates, non-ionic surfactants < 5%

Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards
vPvB Substances: None - PBT Substances: None
Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances
Not Applicable, the product is a mixture.

3.2. Mixtures
Hazardous components within the meaning of the CLP regulation and related classification:

>= 1% - < 3% SODIUM DODECYLBENZENE SULFONATE
CAS: 25155-30-0, EC: 246-680-4
3.1/4/Oral Acute Tox. 4 H302
3.2/2 Skin Irrit. 2 H315
3.3/1 Eye Dam. 1 H318

>= 1% - < 3% SODIUM METASILICATE PENTAHYDRATE
REACH No.: 01-2119449811-37, Index number: 014-010-00-8, CAS: 10213-79-3, EC: 229-912-9
3.2/1B Skin Corr. 1B H314
3.3/1 Eye Dam. 1 H318
3.8/3 STOT SE 3 H335
2.16/1 Met. Corr. 1 H290

>= 1% - < 3% ISOTRIDECANOL ETHOXYLATED
REACH No.: 02-2119552461-55, CAS: 69011-36-5
3.1/4/Oral Acute Tox. 4 H302
3.3/1 Eye Dam. 1 H318

>= 1% - < 3% ETHOXYLATED FATTY ALCOHOL PHOSPHORIC ESTER
CAS: 68071-35-2
3.2/2 Skin Irrit. 2 H315
3.3/2 Eye Irrit. 2 H319

>= 1% - < 3% 2-(2-BUTOXYETHOXY)ETHANOL
REACH No.: 01-2119475104-44, Index number: 603-096-00-8, CAS: 112-34-5, EC: 203-961-6
3.3/2 Eye Irrit. 2 H319

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Immediately take off all contaminated clothing.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

In case of eye contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Protect uninjured eye.

In case of Ingestion:
Do NOT induce vomiting.

In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed
Acute effects:
Severe skin and eye irritation for contact.
Irritation interior system if swallowed.

Until revision date of this document, are unknown chronic effects from the mixture contact with skin, eyes, inhalation, ingestion.

4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:
Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Water.
Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture
The mixture does not contain ingredients classified as explosive according to EC Regulation 1272/2008 (CLP).
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters
Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.
The mixture does not contain ingredients classified as explosive according to EC Regulation 1272/2008 (CLP).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
- Wear personal protection equipment.
- Remove persons to safety.
- See protective measures under point 7 and 8.

6.2. Environmental precautions
- Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
- Retain contaminated washing water and dispose it.
- In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up
- Wash with plenty of water. To converge the product in containment tanks.

6.4. Reference to other sections
- See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Don’t use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren’t any incompatible material residuals in the containers.
- Contamined clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
- Store in area dedicated to alkaly products, keep away from acids and oxygen or peracetic acid based oxidants.
- Store away from sunlight.
- Store in a cool and well ventilated place.
- Do not store in open or unlabeled containers.
- Keep away from food, drink and feed.
- Incompatible materials:
  - Acids, oxygen-based oxidants, peracetic acid, organic substances.
- Store in area dedicated to alkaly products, keep away from acids and oxygen based oxidants and peracetic acid.
- Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability. see also 1.2 and 7.2.
- See section 10.
- Instructions as regards storage premises:
  - Adequately ventilated premises.

7.3. Specific end use(s)
- None in particular, see paragraph 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
- Until the revision date of this document, no experimental data are available for the mixture.
- Below, listed occupational exposure limits, if available, for the components listed in paragraph 3.2.

SODIUM METASILICATE PENTAHYDRATE - CAS: 10213-79-3
EU - STEL(15min): 2 mg/m3 - Notes: sodium hydroxyde analogy
Safety Data Sheet
CLEANER & DEGREASER

EU - STEL: 3 mg/m³ - Notes: OEL Inhalable fraction
EU - STEL: 10 mg/m³ - Notes: OEL respirable fraction

2-(2-BUTOXYETHOXY)ETHANOL - CAS: 112-34-5
EU - TWA(8h): 67.5 mg/m³; 10 ppm - STEL(15min): 101.2 mg/m³, 15 ppm - Notes: OEL
EU - TWA(8h): 67.5 mg/m³; 10 ppm - STEL: 101.2 mg/m³, 15 ppm
ACGIH - TWA(8h): 10 ppm - Notes: (IFV) - Hematologic, liver and kidney eff

DNEL Exposure Limit Values
Until the revision date of this document, no experimental data are available for the mixture. Below, listed the DNEL exposure limits, if available, for the components listed in paragraph 3.2.

SODIUM METASILICATE PENTAHYDRATE - CAS: 10213-79-3
Worker Industry: 6.22 mg/m³ - Consumer: 1.55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 1.49 mg/kg - Consumer: 0.74 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: bw/d
Consumer: 0.74 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: bw/d

2-(2-BUTOXYETHOXY)ETHANOL - CAS: 112-34-5
Worker Industry: 67.5 mg/m³ - Consumer: 40.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 83 mg/kg - Consumer: 50 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 101.2 mg/m³ - Consumer: 60.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 1.25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values
Until the revision date of this document, no experimental data are available for the mixture. Below, listed the PNEC exposure limits, if available, for the components listed in paragraph 3.2.

SODIUM METASILICATE PENTAHYDRATE - CAS: 10213-79-3
Target: Marine water - Value: 1 mg/l
Target: Fresh Water - Value: 7.5 mg/l
Target: Air - Value: 7.5 mg/l
Target: Microorganisms in sewage treatments - Value: 1000 mg/l

2-(2-BUTOXYETHOXY)ETHANOL - CAS: 112-34-5
Target: Marine water - Value: 0.11 mg/l
Target: Marine water sediments - Value: 0.44 mg/kg
Target: Microorganisms in sewage treatments - Value: 200 mg/l
Target: Soil (agricultural) - Value: 0.32 mg/kg
Target: Food chain - Value: 56 mg/kg
Target: Fresh Water - Value: 1.1 mg/l
Target: Freshwater sediments - Value: 4.4 mg/kg
Target: Air - Value: 11 mg/l

8.2. Exposure controls

Eye protection:
Use close fitting safety goggles, don't use eye lens (EN 166)

Protection for skin:
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton (EN 14605 in case of splashes or EN 13982 in case of dust)

Protection for hands:

56201CLP/1
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Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. (EN 388 - EN 374 protection factor 6, corresponding to a breakthrough time >480 minutes).
Due to great diversity of types, observe the operating instructions of the manufacturer with respect to substances listed in paragraph 3.2.

Respiratory protection:
Not needed for normal use.

Thermal Hazards:
The product is not flammable or explosive - see paragraph 2.1. The product contains no explosive components.
Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

Environmental exposure controls:
Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.
See also section 6.2.

Appropriate engineering controls:
No further technical checks suitable for your product under normal conditions.
See also section 1.2, section 7 and Exposure Scenario - Annex I of this document.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Method:</th>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and colour:</td>
<td>Opaque liquid, colorless/yellow</td>
<td>Visual</td>
<td>--</td>
</tr>
<tr>
<td>Odour:</td>
<td>Technical</td>
<td>Olfactory</td>
<td>--</td>
</tr>
<tr>
<td>Odour threshold:</td>
<td>Evident</td>
<td>Olfactory</td>
<td>--</td>
</tr>
<tr>
<td>pH:</td>
<td>12.0 +/- 0.5</td>
<td>Instrumental control</td>
<td>--</td>
</tr>
<tr>
<td>Melting point / freezing point:</td>
<td>Not Relevant</td>
<td>--</td>
<td>Parameter not relevant for the type of product</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>&gt;= 100 °C</td>
<td>--</td>
<td>Estimated value on chemical / physical properties of components</td>
</tr>
<tr>
<td>Flash point:</td>
<td>&gt; 65 ° C</td>
<td>--</td>
<td>Estimated value on chemical / physical properties of components</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not Relevant</td>
<td>--</td>
<td>Parameter not relevant for the type of product</td>
</tr>
<tr>
<td>Solid/gas flammability:</td>
<td>Not Relevant</td>
<td>--</td>
<td>Parameter not relevant for the type of product</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits:</td>
<td>Not Relevant</td>
<td>--</td>
<td>Parameter not relevant for the type of product</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>Not Relevant</td>
<td>--</td>
<td>Parameter not relevant for the type of product</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>Not Relevant</td>
<td>--</td>
<td>Parameter not relevant for the type of product</td>
</tr>
<tr>
<td>Relative density:</td>
<td>1.036 g/ml</td>
<td>Instrumental control</td>
<td>--</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>Total</td>
<td>--</td>
<td>Internal tests</td>
</tr>
</tbody>
</table>
Solubility in oil: Partial  --  Internal tests
Partition coefficient (n-octanol/water): < 1000  --  Value estimated based on the solubility of the mixture.
Auto-ignition temperature: Not Relevant  --  Parameter not relevant for the type of product
Decomposition temperature: Not Relevant  --  Parameter not relevant for the type of product
Viscosity: < 10 cP  --  Estimated indicative value. Not viscous mixture.
Explosive properties: Not Relevant  --  Parameter not relevant for product composition.
Oxidizing properties: Not Relevant  --  Parameter not relevant for product composition.

9.2. Other information

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Method:</th>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miscibility:</td>
<td>Not Relevant</td>
<td>--</td>
<td>Parameter not relevant for the type of product</td>
</tr>
<tr>
<td>Fat Solubility:</td>
<td>Not Relevant</td>
<td>--</td>
<td>Parameter not relevant for the type of product</td>
</tr>
<tr>
<td>Conductivity:</td>
<td>Not Relevant</td>
<td>--</td>
<td>Parameter not relevant for the type of product</td>
</tr>
<tr>
<td>Substance Groups relevant properties</td>
<td>Not Relevant</td>
<td>--</td>
<td>Parameter not relevant for the type of product</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1. Reactivity
Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

10.2. Chemical stability
Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

10.3. Possibility of hazardous reactions
Store in area dedicated to alkaline products, keep away from acids and oxygen or peracetic acid based oxidants.

In normal conditions no dangerous reactions of the mixture
Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.
See also section 7.2.

10.4. Conditions to avoid
Different uses than recommended. Do not use in combination with other products. See also 1.2 and 7.2

10.5. Incompatible materials
Acids, oxygen-based oxidants, peracetic acid, organic substances.
Store in area dedicated to alkaline products, keep away from acids and oxygen based oxidants and peracetic acid.

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability. see also 1.2 and 7.2.

10.6. Hazardous decomposition products
## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological information of the product:**

**CLEANER & DEGREASER**

- **a) acute toxicity**
  - Not classified
  - Based on available data, the classification criteria are not met

- **b) skin corrosion/irritation**
  - The product is classified: Skin Corr. 1A H314

- **c) serious eye damage/irritation**
  - The product is classified: Eye Dam. 1 H318

- **d) respiratory or skin sensitisation**
  - Not classified
  - Based on available data, the classification criteria are not met

- **e) germ cell mutagenicity**
  - Not classified
  - Based on available data, the classification criteria are not met

- **f) carcinogenicity**
  - Not classified
  - Based on available data, the classification criteria are not met

- **g) reproductive toxicity**
  - Not classified
  - Based on available data, the classification criteria are not met

- **h) STOT - single exposure**
  - Not classified
  - Based on available data, the classification criteria are not met

- **i) STOT - repeated exposure**
  - Not classified
  - Based on available data, the classification criteria are not met

- **j) aspiration hazard**
  - Not classified
  - Based on available data, the classification criteria are not met

**Toxicological information of the main substances found in the product:**

Below are reported, if available, the toxicological information of the components listed in paragraph 3.2.

### SODIUM METASILICATE PENTAHYDRATE - CAS: 10213-79-3

- **a) acute toxicity:**
  - Test: LD50 - Route: Oral - Species: Rat = 1152 mg/kg
  - Test: LC50 - Route: Inhalation - Species: Rat > 2.06 g/m3 - Duration: 4h
  - Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg bw/d

- **b) skin corrosion/irritation:**
  - Test: Skin Corrosive - Route: Skin Positive

- **c) serious eye damage/irritation:**
  - Test: Eye Corrosive Positive

- **d) respiratory or skin sensitisation:**
  - Test: Skin or Resp. Sensitization Negative

- **h) STOT - single exposure:**
  - Test: NOAEL - Route: Oral - Species: Rat = 227 mg/kg bw/d

### ISOTRIDECANOL ETHOXYLATED - CAS: 69011-36-5
a) acute toxicity:
   - Test: LD50 - Route: Oral - Species: Rat > 300 mg/kg - Source: OECD 423
   - Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD 402

b) skin corrosion/irritation:
   - Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Source: OECD 404

c) serious eye damage/irritation:
   - Test: Eye Corrosive - Species: Rabbit Positive - Source: OECD 405

Ethoxylated Fatty Alcohol Phosphoric Ester - CAS: 68071-35-2

a) acute toxicity:
   - Test: LD50 - Route: Oral > 2000 mg/kg

b) skin corrosion/irritation:
   - Test: Skin Irritant - Route: Skin Positive

c) serious eye damage/irritation:
   - Test: Eye Irritant Positive

2-(2-Butoxyethoxy)ethanol - CAS: 112-34-5

a) acute toxicity:
   - Test: LD50 - Route: Oral - Species: Mouse = 2410 mg/kg
   - Test: LD50 - Route: Skin - Species: Rabbit = 2764 mg/kg
   - Test: LC50 - Route: Inhalation Vapour - Species: Rat > 29 ppm - Duration: 2h

b) skin corrosion/irritation:
   - Test: Skin Irritant No - Source: OECD 404

c) serious eye damage/irritation:
   - Test: Eye Irritant Yes - Source: OECD 405

d) respiratory or skin sensitisation:
   - Test: Skin or Resp. Sensitization Negative

e) germ cell mutagenicity:
   - Test: Mutagenesis Negative

f) carcinogenicity:
   - Test: Carcinogenicity Negative

g) reproductive toxicity:
   - Test: Reproductive Toxicity Negative

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Until the revision date of this document, are not available experimental data on the mixture.

Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

CLEANER & DEGREASER

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Sodium Metasilicate Pentahydrate - CAS: 10213-79-3

a) Aquatic acute toxicity:
   - Endpoint: LC50 - Species: Fish = 210 mg/l - Duration h: 96 - Notes: Brachydanio rerio
   - Endpoint: EC50 - Species: Daphnia = 1700 mg/l - Duration h: 48 - Notes: Daphnia magna
   - Endpoint: EC50 - Species: Algae = 207 mg/l - Duration h: 72 - Notes: Scenedesmus subspicatus

ISOTRIDECANOL ETHOXYLATED - CAS: 69011-36-5

a) Aquatic acute toxicity:
   - Endpoint: LC50 - Species: Fish > 1 mg/l - Duration h: 96 - Notes: Cyprinus carpio
   - Endpoint: EC50 - Species: Daphnia > 1 mg/l - Duration h: 48 - Notes: Daphnia magna
   - Endpoint: EC50 - Species: Algae > 1 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus
b) Aquatic chronic toxicity:
   Endpoint: NOEC - Species: Daphnia > 1 mg/l - Duration h: 504 - Notes: Daphnia magna

c) Bacteria toxicity:
   Endpoint: EC10 - Species: Microorganisms / Effect on activated sludge: > 10000 mg/l - Duration h: 17

**ETHOXYLATED FATTY ALCOHOL PHOSPHORIC ESTER - CAS: 68071-35-2**

a) Aquatic acute toxicity:
   Endpoint: LC50 - Species: Fish = 101 mg/l - Duration h: 96

2-(2-BUTOXYETHOXY)ETHANOL - CAS: 112-34-5

a) Aquatic acute toxicity:
   Endpoint: LC50 - Species: Fish = 1300 mg/l - Duration h: 96 - Notes: Lepomis macrochirus
   Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: Daphnia magna
   Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: Scenedesmus subspicatus
   Endpoint: EC10 - Species: Microorganisms / Effect on activated sludge: > 1995 mg/l - Duration h: 0.5

12.2. Persistence and degradability

Until the revision date of this document, are not available experimental data on the mixture. Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

**ISOTRIDECANOL ETHOXYLATED - CAS: 69011-36-5**
   Biodegradability: Readily biodegradable - Test: CO2 production - Duration: 28 days - %: >60
   Test: OECD 301E - %: 90

**ETHOXYLATED FATTY ALCOHOL PHOSPHORIC ESTER - CAS: 68071-35-2**
   Biodegradability: Readily biodegradable - Test: OECD 301D - Notes: >60%

2-(2-BUTOXYETHOXY)ETHANOL - CAS: 112-34-5
   Biodegradability: Readily biodegradable - Test: OECD 301C - Duration: 28 days - %: 80-90

The surfactant(s) contained in this preparation complies with the biodegradability criteria laid down in Regulation (EC) No 648/2004 on detergents. All supporting data are kept available to the competent authorities of the Member States and will be provided to those authorities if they so request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Until the revision date of this document, are not available experimental data on the mixture. Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

**ISOTRIDECANOL ETHOXYLATED - CAS: 69011-36-5**
   Bioaccumulation: Not bioaccumulative

2-(2-BUTOXYETHOXY)ETHANOL - CAS: 112-34-5
   Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 0.56

12.4. Mobility in soil

Until the revision date of this document, are not available experimental data on the mixture. Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

Not applicable

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

Until the revision date of this document, unknown adverse effects and symptoms towards the environment.
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Do not discharge into the ground or into drains.
See also section 6

SECTION 14: Transport information

14.1. UN number
ADR-UN Number: 1760
IATA-UN Number: 1760
IMDG-UN Number: 1760

14.2. UN proper shipping name
ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (sodium metasilicate pentahydrate)
IATA-Shipping Name: CORROSIVE LIQUID, N.O.S. (sodium metasilicate pentahydrate)
IMDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (sodium metasilicate pentahydrate)

14.3. Transport hazard class(es)
ADR-Class: 8
ADR - Hazard identification number: 80
IATA-Class: 8
ADR/IMDG/IATA-Label: 8
IMDG-Class: 8

14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III

14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No

14.6. Special precautions for user
ADR-Subsidiary risks: -
ADR-S.P.: 274
ADR-Transport category (Tunnel restriction code): E
IATA-Passenger Aircraft: 852
IATA-Subsidiary risks: -
IATA-Cargo Aircraft: 856
IATA-S.P.: -
IATA-ERG: 8L
IMDG-S.P.: 223 274
IMDG-EmS: F-A , S-B
IMDG-Subsidiary risks: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: SW2
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation
(EC) 1907/2006 (REACH) and subsequent modifications:
None

Where applicable, refer to the following regulatory provisions:
Directive 2012/18/EU (Seveso III)
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None

15.2. Chemical safety assessment
No, for instructions on safe mangling you see Sections 7 and 8 and the exposure scenario -
Annex I of this document.

SECTION 16: Other information

Full text of phrases referred to in Section 3:
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H290 May be corrosive to metals.
H319 Causes serious eye irritation.

<table>
<thead>
<tr>
<th>Hazard class and hazard category</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met. Corr. 1</td>
<td>2.16/1</td>
<td>Substance or mixture corrosive to metals, Category 1</td>
</tr>
<tr>
<td>Acute Tox. 4</td>
<td>3.1/4/Oral</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>3.2/1A</td>
<td>Skin corrosion, Category 1A</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>3.2/1B</td>
<td>Skin corrosion, Category 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>3.2/2</td>
<td>Skin irritation, Category 2</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>3.3/1</td>
<td>Serious eye damage, Category 1</td>
</tr>
</tbody>
</table>
Eye Irrit. 2  3.3/2  Eye irritation, Category 2  
STOT SE 3  3.8/3  Specific target organ toxicity - single exposure, Category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Classification according to Regulation (EC) Nr. 1272/2008</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr. 1A, H314</td>
<td>On basis of test data (pH)</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>On basis of test data (pH)</td>
</tr>
</tbody>
</table>

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:
- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX’s DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EC0/10/20/50/100: Effective concentration, for 0/10/20/50/100 percent of test population.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
INCI: International Nomenclature of Cosmetic Ingredients.
KSt: Explosion coefficient.
LC0/10/20/50/100: Lethal concentration, for 0/10/20/50/100 percent of test population.
LD0/10/20/50/100: Lethal dose, for 0/10/20/50/100 percent of test population.
NOEC: No Observed Effect Concentration
NOAEL(R)/N: No Observed Adverse Effect Level(Repeated)/Concentration
OECD: Organisation for Economic Co-operation and Development
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.
**Title of exposure scenario**
Detergent for general cleaning: Manual process.

**Use description**

<table>
<thead>
<tr>
<th>Sector Use</th>
<th>SU22 – Professional use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Category</td>
<td>PC35 – Cleaning and washing product (including solvent based products)</td>
</tr>
</tbody>
</table>

**Description of activities/process considered on exposure scenario.**

- Dilute with water as specified on the label, if necessary.
- Use following the use instruction as specified on the label.
- Leave on.
- Rinse, if necessary.

**Frequency and duration**

<table>
<thead>
<tr>
<th>Use phase</th>
<th>1 time a day for daily cleaning detergents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Periodical for specific detergents</td>
</tr>
</tbody>
</table>

Relevant limit values of ingredients, if available, are stated in section 8 of the SDS.

**Physical appearance and concentration**

- Liquid. To dilute or ready to use.

In section 2 of the SDS of product and on the label, the classification of mixture is provided. Mixture classification is based on ingredients classification and on chemical/physical properties stated in section 9 of the SDS of product.

**Use conditions**

- Room temperature
- Good general ventilation at workplace is sufficient.

**Protection**

<table>
<thead>
<tr>
<th>Training of worker to use and maintenance of PPE is supposed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avoid contact with damaged skin.</td>
</tr>
<tr>
<td>Do not use in combination with other products</td>
</tr>
<tr>
<td>Wash hand after use.</td>
</tr>
</tbody>
</table>

In case of accidental release: dilute with water and dry.

See section 6 of the SDS in case of accidental release

Follow use instruction as specified on the label or on technical sheet. Use good occupational hygiene practices as specified in section 7 on the SDS.

**Environmental measures**

See section 6 of the SDS in case of accidental release

See section 12 of the SDS for ecotoxicological information of mixture and dangerous ingredients.

See section 13 of the SDS for disposal considerations.

**Note:**

SDS: Safety Data Sheet

PPE: Personal Protection Equipment