

**TOPAZ LD2****Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product name : TOPAZ LD2  
UFI : SNVH-V574-2C0T-4UMT  
Product code : 116642E  
Use of the Substance/Mixture : Cleaning product  
Substance type: Mixture

**For professional users only.**

Product dilution information : 5.0 %

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

Identified uses : Foam cleaner. Semi-Automatic with venting process  
General purpose cleaner. Manual process  
Foam cleaner. Semi-Automatic without venting process  
Recommended restrictions on use : Reserved for industrial and professional use.

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

Company : Ecolab a.s  
Innspurten 9  
Postboks 6440-Etterstad, N-0605 Oslo Norway +47 22 68 18 00  
NO-kundeservice@ecolab.com

**1.4 Emergency telephone number**

Emergency telephone number : +4785295496  
+32-(0)3-575-5555 Trans-European  
Poison Information Centre telephone number : +47 22 59 13 00

Date of Compilation/Revision : 01.08.2023  
Version : 1.1

**Section: 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

**Product AS SOLD**  
Corrosive to metals, Category 1

H290

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## TOPAZ LD2

Skin corrosion, Category 1 H314  
Serious eye damage, Category 1 H318

### Product AT USE DILUTION

Skin corrosion, Sub-category 1A H314  
Serious eye damage, Category 1 H318

The classification of this product is based only on its extreme pH value (in accordance with current European legislation).

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

#### Product AS SOLD

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:  
benzenesulfonic acid, C10-13- alkyl derivs., sodium salt  
disodium metasilicate

### Product AT USE DILUTION

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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P310

present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.**2.3 Other hazards****Product AS SOLD**

None known.

**Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Product AS SOLD****Hazardous components**

Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
2-(2-butoxyethoxy)ethanol	112-34-5 203-961-6 01-2119475104-44	Eye irritation Category 2; H319	>= 2.5 - < 5
benzenesulfonic acid, C10-13- alkyl derivs., sodium salt	68411-30-3 270-115-0 01-2119489428-22	Acute toxicity Category 4; H302 Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Chronic aquatic toxicity Category 3; H412	>= 3 - < 5
disodium metasilicate	6834-92-0 229-912-9 01-2119449811-37	Skin corrosion Category 1B; H314 Specific target organ toxicity - single exposure Category 3; H335	>= 2.5 - < 3
sodium hydroxide	1310-73-2 215-185-5 01-2119457892-27	Skin corrosion Category 1A; H314 Corrosive to metals Category 1; H290  Skin corrosion Category 1A H314 >= 5 % Skin corrosion Category 1B H314 2 - < 5 % Skin irritation Category 2 H315 0.5 - < 2 % Eye irritation Category 2 H319 0.5 - < 2 %	>= 0.5 - < 1

**Product AT USE DILUTION****Hazardous components**

Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
Substances with a workplace exposure limit :			
2-(2-butoxyethoxy)ethanol	112-34-5 203-961-6 01-2119475104-44	Eye irritation Category 2; H319	>= 0.1 - < 0.25

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section: 4. FIRST AID MEASURES****4.1 Description of first aid measures****Product AS SOLD**

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- |                         |   |
|-------------------------|---|
| In case of eye contact  | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. |
| In case of skin contact | : Wash off immediately with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.                          |
| If swallowed            | : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, give 2 glasses of water. Get medical attention immediately.                |
| If inhaled              | : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.  |

### Product AT USE DILUTION

- |                         |   |
|-------------------------|---|
| In case of eye contact  | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. |
| In case of skin contact | : Wash off immediately with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.                          |
| If swallowed            | : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, give 2 glasses of water. Get medical attention immediately.                |
| If inhaled              | : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.  |

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

See Section 11 for more detailed information on health effects and symptoms.

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

- |           |                          |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

## Section: 5. FIREFIGHTING MEASURES

### Product AS SOLD

#### 5.1 Extinguishing media

- |                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : None known.   |

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

- |                                      |   |
|--------------------------------------|---|
| Specific hazards during firefighting | : Not flammable or combustible.   |
| Hazardous combustion products        | : Depending on combustion properties, decomposition products may include following materials: |

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Carbon oxides  
nitrogen oxides (NOx)  
Sulphur oxides  
metal oxides

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Use personal protective equipment.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

## Section: 6. ACCIDENTAL RELEASE MEASURES

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

#### Product AS SOLD

- Advice for non-emergency personnel : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Advice for emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

#### Product AT USE DILUTION

- Advice for non-emergency personnel : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Advice for emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

### 6.2 Environmental precautions

#### Product AS SOLD

- Environmental precautions : Do not allow contact with soil, surface or ground water.

#### Product AT USE DILUTION

- Environmental precautions : Do not allow contact with soil, surface or ground water.

### 6.3 Methods and materials for containment and cleaning up

#### Product AS SOLD

- Methods for cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a

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waterway.

**Product AT USE DILUTION**

Methods for cleaning up

- : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

**6.4 Reference to other sections**

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

**Section: 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

**Product AS SOLD**

Advice on safe handling

- : Do not ingest. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

Hygiene measures

- : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

**Product AT USE DILUTION**

Advice on safe handling

- : Do not ingest. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

Hygiene measures

- : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

**7.2 Conditions for safe storage, including any incompatibilities**

**Product AS SOLD**

Requirements for storage areas and containers

- : Do not store near acids. Absorb spillage to prevent material damage. Keep out of reach of children. Keep container tightly closed. Keep only in original packaging. Store in suitable labeled containers.

Storage temperature

- : 0 °C to 40 °C

Packaging material

- : Suitable material: Plastic material

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Unsuitable material: Mild steel, Aluminium

**Product AT USE DILUTION**

Requirements for storage areas and containers : Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

**7.3 Specific end uses****Product AS SOLD**

Specific use(s) : Foam cleaner. Semi-Automatic with venting process  
General purpose cleaner. Manual process  
Foam cleaner. Semi-Automatic without venting process

**Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Product AS SOLD****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-(2-butoxyethoxy)ethanol	112-34-5	TWA	10 ppm 68 mg/m <sup>3</sup>	FOR-2011-12-06-1358
sodium hydroxide	1310-73-2	T	2 mg/m <sup>3</sup>	FOR-2011-12-06-1358

**DNEL**

2-(2-butoxyethoxy)ethanol	: End Use: Workers Exposure routes: Inhalation Potential health effects: Short-term - local Value: 101.2 mg/m <sup>3</sup>  End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 20 mg/kg  End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 67.5 mg/m <sup>3</sup>  End Use: Workers Exposure routes: Inhalation Potential health effects: Short-term - local Value: 67.5 mg/m <sup>3</sup>
benzenesulfonic acid, C10-13-alkyl derivs., sodium salt	: End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 85 mg/cm <sup>2</sup>  End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 85 mg/cm <sup>2</sup>  End Use: Workers

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	<p>Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 6 mg/m3</p> <p>End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 6 mg/m3</p>
disodium metasilicate	<p>: End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 1.49 mg/kg</p> <p>End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 6.22 mg/m3</p>
sodium hydroxide	<p>: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1 mg/m3</p> <p>End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1 mg/m3</p>
Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt	<p>: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 175 mg/m3</p> <p>End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 2750 mg/m3</p> <p>End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 0.132 mg/m3</p> <p>End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 52 mg/m3</p> <p>End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 1650 mg/m3</p> <p>End Use: Consumers Exposure routes: Dermal</p>

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	Potential health effects: Long-term local effects Value: 0.079 mg/m <sup>3</sup>  End Use: Consumers Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 15 mg/m <sup>3</sup>
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**PNEC**

2-(2-butoxyethoxy)ethanol	: Fresh water Value: 1 mg/l  Marine water Value: 0.1 mg/l  Intermittent use/release Value: 3.9 mg/l  Sewage treatment plant Value: 200 mg/l  Sediment Value: 4 mg/kg  Soil Value: 0.4 mg/kg  Oral Value: 56 mg/kg
benzenesulfonic acid, C10-13-alkyl derivs., sodium salt	: Fresh water Value: 0.268 mg/l  Marine water Value: 0.0268 mg/l  Intermittent use/release Value: 0.0167 mg/l  Fresh water sediment Value: 8.1 mg/kg  Marine sediment Value: 8.1 mg/kg  Sewage treatment plant Value: 3.43 mg/l
disodium metasilicate	: Fresh water Value: 7.5 mg/l  Marine water Value: 1 mg/l  Intermittent use/release

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	<p>Value: 7.5 mg/l</p> <p>Sewage treatment plant Value: 1000 mg/l</p>
Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt	<p>: Fresh water Value: 0.24 mg/l</p> <p>Marine water Value: 0.024 mg/l</p> <p>Sewage treatment plant Value: 10000 mg/l</p> <p>Fresh water sediment Value: 0.917 mg/kg</p> <p>Marine sediment Value: 0.092 mg/kg</p> <p>Soil Value: 7.5 mg/kg</p>

**8.2 Exposure controls****Product AS SOLD****Appropriate engineering controls**

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

**Individual protection measures**

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety goggles  
Face-shield

Hand protection (EN 374) : Recommended preventive skin protection  
Gloves  
Nitrile rubber  
butyl-rubber  
Breakthrough time: 1 – 4 hours  
Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4 mm or equivalent (please refer to the gloves manufacturer/distributor for advise).  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection (EN 14605) : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing including appropriate safety shoes

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Respiratory protection (EN 143, 14387) : None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

### Product AT USE DILUTION

#### Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety goggles  
Face-shield

Hand protection (EN 374) : Recommended preventive skin protection  
Gloves  
Nitrile rubber  
butyl-rubber  
Breakthrough time: 1 – 4 hours  
Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4 mm or equivalent (please refer to the gloves manufacturer/distributor for advise).  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection (EN 14605) : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing including appropriate safety shoes

Respiratory protection (EN 143, 14387) : None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

#### Environmental exposure controls

General advice : Consider the provision of containment around storage vessels.

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

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Physical state	:	liquid	liquid
Colour	:	light yellow	colourless
Odour	:	odourless	not significant
pH	:	12.9 - 13.2, 100 %	12.02
Particle characteristics			
Assessment	:	not applicable	not applicable
Particle size	:	not applicable	not applicable
Particle Size Distribution	:	not applicable	not applicable
Dustiness	:	not applicable	not applicable
Specific surface area	:	not applicable	not applicable
Surface charge/Zeta potential	:	not applicable	not applicable
Shape	:	not applicable	not applicable
Crystallinity	:	not applicable	not applicable
Surface treatment /Coatings	:	not applicable	not applicable
Flash point	:	Not applicable.	
Odour Threshold	:	Not applicable and/or not determined for the mixture	
Melting point/freezing point	:	Not applicable and/or not determined for the mixture	
Boiling point, initial boiling point and boiling range	:	Not applicable and/or not determined for the mixture	
Evaporation rate	:	Not applicable and/or not determined for the mixture	
Flammability	:	Not applicable and/or not determined for the mixture	
Upper explosion limit	:	Not applicable and/or not determined for the mixture	
Lower explosion limit	:	Not applicable and/or not determined for the mixture	
Vapour pressure	:	Not applicable and/or not determined for the mixture	
Relative vapour density	:	Not applicable and/or not determined for the mixture	
Density and / or relative density	:	1.03 - 1.07	
Water solubility	:	soluble	
Solubility in other solvents	:	Not applicable and/or not determined for the mixture	
Partition coefficient: n-octanol/water (log value)	:	Not applicable and/or not determined for the mixture	
Auto-ignition temperature	:	Not applicable and/or not determined for the mixture	
Thermal decomposition	:	Not applicable and/or not determined for the mixture	
Viscosity, kinematic	:	Not applicable and/or not determined for the mixture	
Explosive properties	:	Not applicable and/or not determined for the mixture	
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.	

**9.2 Other information**

Not applicable and/or not determined for the mixture

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No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

Acids

Mild steel

Aluminium

**10.6 Hazardous decomposition products**

Depending on combustion properties, decomposition products may include following materials:

Carbon oxides

nitrogen oxides (NOx)

Sulphur oxides

metal oxides

**Section: 11. TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Product AS SOLD**

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

**Product**

Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg

Acute inhalation toxicity : There is no data available for this product.

Acute dermal toxicity : There is no data available for this product.

Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye irritation : There is no data available for this product.

Respiratory or skin : There is no data available for this product.

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sensitization

Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

### Components

Acute oral toxicity : 2-(2-butoxyethoxy)ethanol LD50 rat: 3,306 mg/kg

benzenesulfonic acid, C10-13- alkyl derivs., sodium salt LD50 rat:  
1,080 mg/kg

disodium metasilicate LD50 rat: 500 mg/kg

### Components

Acute dermal toxicity : 2-(2-butoxyethoxy)ethanol LD50 rabbit: 2,764 mg/kg

### Potential Health Effects

#### Product AS SOLD

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

#### Product AT USE DILUTION

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

### Experience with human exposure

#### Product AS SOLD

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

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Ingestion : Corrosion, Abdominal pain  
Inhalation : Respiratory irritation, Cough

### Product AT USE DILUTION

Eye contact : Redness, Pain, Corrosion  
Skin contact : Redness, Pain, Corrosion  
Ingestion : Corrosion, Abdominal pain  
Inhalation : Respiratory irritation, Cough

## 11.2 Information on other hazards

Further information : no data available

## Section: 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Product AS SOLD

Environmental Effects : This product has no known ecotoxicological effects.

#### Product AT USE DILUTION

Environmental Effects : This product has no known ecotoxicological effects.

#### Product AS SOLD

##### Product

Toxicity to fish : no data available  
Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

##### Components

Toxicity to fish : 2-(2-butoxyethoxy)ethanol  
96 h LC50 Fish: 1,300 mg/l  
benzenesulfonic acid, C10-13- alkyl derivs., sodium salt  
96 h LC50 Lepomis macrochirus (Bluegill sunfish): 1.67 mg/l  
disodium metasilicate  
96 h LC50 Fish: 210 mg/l

##### Components

Toxicity to daphnia and other aquatic invertebrates : benzenesulfonic acid, C10-13- alkyl derivs., sodium salt  
48 h LC50 Daphnia magna (Water flea): 2.4 mg/l  
sodium hydroxide  
48 h EC50 Daphnia magna (Water flea): 40 mg/l

##### Components

Toxicity to algae : benzenesulfonic acid, C10-13- alkyl derivs., sodium salt  
96 h EC50 Pseudokirchneriella subcapitata (green algae): 29 mg/l

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### 12.2 Persistence and degradability

#### Product

Biodegradability : The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC

#### Components

Biodegradability : 2-(2-butoxyethoxy)ethanol  
Result: Readily biodegradable.

benzenesulfonic acid, C10-13- alkyl derivs., sodium salt  
Result: Readily biodegradable.

disodium metasilicate  
Result: Not applicable - inorganic

sodium hydroxide  
Result: Not applicable - inorganic

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

#### Product

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### 12.7 Other adverse effects

no data available

## Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

### 13.1 Waste treatment methods

#### Product AS SOLD

Product : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of wastes in an

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	approved waste disposal facility.
Contaminated packaging	: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.
Guidance for Waste Code selection	: Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

**Product AT USE DILUTION**

Product	: Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.
Contaminated packaging	: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

**Section: 14. TRANSPORT INFORMATION****Product AS SOLD**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (ADR/ADN/RID)**

14.1 UN number or ID number	: 3266
14.2 UN proper shipping name	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (silicic acid, sodium salt, sodium hydroxide)
14.3 Transport hazard class(es)	: 8
14.4 Packing group	: III
14.5 Environmental hazards	: No
14.6 Special precautions for user	: None

**Air transport (IATA)**

14.1 UN number or ID number	: 3266
14.2 UN proper shipping name	: Corrosive liquid, basic, inorganic, n.o.s. (silicic acid, sodium salt, sodium hydroxide)
14.3 Transport hazard class(es)	: 8
14.4 Packing group	: III
14.5 Environmental hazards	: No

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14.6 Special precautions for user : None

**Sea transport (IMDG/IMO)**

14.1 UN number or ID number : 3266

14.2 UN proper shipping name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
(silicic acid, sodium salt, sodium hydroxide)

14.3 Transport hazard class(es) : 8

14.4 Packing group : III

14.5 Environmental hazards : No

14.6 Special precautions for user : None

14.7 Maritime transport in bulk according to IMO instruments : Not applicable.

**Section: 15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

according to Detergents Regulation EC 648/2004 : less than 5 %: Anionic surfactants

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Candidate List of Substances of Very High Concern for Authorisation : Not applicable.

**National Regulations**

**Take note of Dir 94/33/EC on the protection of young people at work.**

Registration number : 617687

Other regulations : Health and Safety at Work Act.

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out on the product.

**Section: 16. OTHER INFORMATION****Procedure used to derive the classification according to REGULATION (EC) No 1272/2008**

Classification	Justification
Corrosive to metals 1, H290	Expert judgement and weight of evidence determination.
Skin corrosion 1, H314	Based on product data or assessment
Serious eye damage 1, H318	Based on product data or assessment

**Full text of H-Statements**

H290 May be corrosive to metals.

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H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

## TOPAZ LD2

### Annex: Exposure Scenarios

#### Exposure Scenario: Foam cleaner. Semi-Automatic with venting process

Life Cycle Stage : Use at industrial sites  
Product category : PC35      Washing and cleaning products (including solvent based products)

#### Contributing scenario controlling environmental exposure for:

Environmental release category : ERC4      Industrial use of processing aids in processes and products, not becoming part of articles  
Daily amount per site : 50 kg  
Type of Sewage Treatment Plant : Municipal sewage treatment plant

#### Contributing scenario controlling worker exposure for:

Process category : PROC7      Industrial spraying  
Exposure duration : 240 min  
Operational conditions and risk management measures : Indoor  
Local Exhaust Ventilation is not required  
General ventilation      Ventilation rate per hour : 1  
Skin Protection : see section 8  
Respiratory Protection : see section 8

#### Contributing scenario controlling worker exposure for:

Process category : PROC8b      Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities  
Exposure duration : 60 min  
Operational conditions and risk management measures : Indoor  
Local Exhaust Ventilation is not required  
General ventilation      Ventilation rate per hour : 1  
Skin Protection : see section 8  
Respiratory Protection : see section 8

#### Exposure Scenario: Foam cleaner. Semi-Automatic without venting process

**SAFETY DATA SHEET** according to Regulation (EC) No. 1907/2006**TOPAZ LD2**

Life Cycle Stage : Use at industrial sites  
Product category : **PC35** Washing and cleaning products (including solvent based products)

**Contributing scenario controlling environmental exposure for:**

Environmental release category : **ERC4** Industrial use of processing aids in processes and products, not becoming part of articles  
Daily amount per site : 50 kg  
Type of Sewage Treatment Plant : Municipal sewage treatment plant

**Contributing scenario controlling worker exposure for:**

Process category : **PROC7** Industrial spraying  
Exposure duration : 240 min  
Operational conditions and risk management measures : Indoor  
General ventilation : Ventilation rate per hour 1  
Skin Protection : see section 8  
Respiratory Protection : see section 8

**Contributing scenario controlling worker exposure for:**

Process category : **PROC8b** Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities  
Exposure duration : 60 min  
Operational conditions and risk management measures : Indoor  
General ventilation : Ventilation rate per hour 1  
Skin Protection : see section 8  
Respiratory Protection : see section 8

**Exposure Scenario: General purpose cleaner. Manual process**

Life Cycle Stage : Widespread use by professional workers  
Product category : **PC35** Washing and cleaning products (including solvent based products)

**SAFETY DATA SHEET** according to Regulation (EC) No. 1907/2006**TOPAZ LD2****Contributing scenario controlling environmental exposure for:**

Environmental release category : **ERC8a** Wide dispersive indoor use of processing aids in open systems  
Daily amount per site : 7.5 kg  
Type of Sewage Treatment Plant : Municipal sewage treatment plant

**Contributing scenario controlling worker exposure for:**

Process category : **PROC10** Roller application or brushing  
Exposure duration : 480 min  
Operational conditions and risk management measures : Indoor  
Local Exhaust Ventilation is not required  
General ventilation : Ventilation rate per hour 1  
Skin Protection : see section 8  
Respiratory Protection : see section 8

**Contributing scenario controlling worker exposure for:**

Process category : **PROC8a** Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities  
Exposure duration : 60 min  
Operational conditions and risk management measures : Indoor  
Local Exhaust Ventilation is not required  
General ventilation : Ventilation rate per hour 1  
Skin Protection : see section 8  
Respiratory Protection : see section 8