## Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

| | | |
|---|---|---|
| Product name | : | TOPCLIN Manual Dish |
| UFI | : | YPDY-DW1U-WH0G-0AAT |
| Product code | : | 118536E |
| Use of the Substance/Mixture | : | Manual Warewashing Detergent |
| Substance type: | : | Mixture |
| | | **For professional users only.** |
| Product dilution information | : | No dilution information provided. |

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

| | | |
|---|---|---|
| Identified uses | : | Dishwash product. Manual 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<br>Innspurten 9<br>Postboks 6440-Etterstad, N-0605 Oslo Norway +47 22 68 18 00<br>NO-kundeservice@ecolab.com |

### 1.4 Emergency telephone number

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

Date of Compilation/Revision : 09.11.2023
Version : 1.2

## Section: 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**
No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

**Additional Labelling:**
Special labelling of certain mixtures : Safety data sheet available on request.

**2.3 Other hazards**

None known.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.2 Mixtures**

**Hazardous components**

| Chemical Name | CAS-No.<br>EC-No.<br>REACH No. | Classification<br>REGULATION (EC) No 1272/2008 | Concentration : [%] |
|---|---|---|---|
| Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt | 68891-38-3<br>500-234-8<br>01-2119488639-16 | Skin irritation Category 2; H315<br>Serious eye damage Category 1; H318<br>Chronic aquatic toxicity Category 3; H412<br><br>Serious eye damage/eye irritation<br>Category 1<br>10 - 100 %<br>Serious eye damage/eye irritation<br>Category 2A<br>> 5 - < 10 % | >= 3 - < 5 |

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**

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : 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 : No specific measures identified.

## Section: 5. FIREFIGHTING MEASURES

**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:
Carbon oxides
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.

## Section: 6. ACCIDENTAL RELEASE MEASURES

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

Advice for non-emergency personnel : 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**

Environmental precautions : No special environmental precautions required.

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

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**

| | | |
|---|---|---|
| Advice on safe handling | : | Wash hands after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section 8. |
| Hygiene measures | : | Wash hands before breaks and immediately after handling the product. |

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

| | | |
|---|---|---|
| Requirements for storage areas and containers | : | Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers. |
| Storage temperature | : | 0 °C to 40 °C |

### 7.3 Specific end uses

| | | |
|---|---|---|
| Specific use(s) | : | Dishwash product. Manual process |

## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

| | | |
|---|---|---|
| Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt | : | End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term systemic effects<br>Value: 175 mg/m3<br><br>End Use: Workers<br>Exposure routes: Dermal<br>Potential health effects: Long-term systemic effects<br>Value: 2750 mg/m3<br><br>End Use: Workers<br>Exposure routes: Dermal<br>Potential health effects: Long-term local effects<br>Value: 0.132 mg/m3<br><br>End Use: Consumers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term systemic effects<br>Value: 52 mg/m3<br><br>End Use: Consumers<br>Exposure routes: Dermal<br>Potential health effects: Long-term systemic effects<br>Value: 1650 mg/m3<br><br>End Use: Consumers<br>Exposure routes: Dermal<br>Potential health effects: Long-term local effects<br>Value: 0.079 mg/m3<br><br>End Use: Consumers<br>Exposure routes: Oral |

| | | |
|---|---|---|
| | | Potential health effects: Long-term systemic effects<br>Value: 15 mg/m3 |

PNEC

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

**8.2 Exposure controls**

**Appropriate engineering controls**

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures**

Hygiene measures : Wash hands before breaks and immediately after handling the product.

Eye/face protection (EN 166) : No special protective equipment required.

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection (EN 14605) : No special protective equipment required.

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

| | | |
|---|---|---|
| Physical state | : | liquid |
| Colour | : | colourless |
| Odour | : | odourless |
| pH | : | 5.0 - 6.0, 100 % |
| Particle characteristics | | |
| Assessment | : | not applicable |
| Particle size | : | not applicable |
| Particle Size Distribution | : | not applicable |
| Dustiness | : | not applicable |
| Specific surface area | : | not applicable |
| Surface charge/Zeta potential | : | not applicable |
| Shape | : | not applicable |
| Crystallinity | : | not applicable |
| Surface treatment /Coatings | : | 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 | : | 1.01 - 1.05 |
| 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 | : | 111.851 mm2/s (40 °C) |
| 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

## Section: 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

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

None known.

### 10.6 Hazardous decomposition products

Depending on combustion properties, decomposition products may include following materials:
Carbon oxides
Sulphur oxides
metal oxides

## Section: 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

**Product**

| | | |
|---|---|---|
| Acute oral toxicity | : | There is no data available for this product. |
| 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 sensitization | : | There is no data available for this product. |
| 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 | : | Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt LD50 rat: 3,350 mg/kg |

**Components**

| | | |
|---|---|---|
| Acute dermal toxicity | : | Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt LD50 rat: 8,000 mg/kg |

**Potential Health Effects**

| | | |
|---|---|---|
| Eyes | : | Health injuries are not known or expected under normal use. |
| Skin | : | Health injuries are not known or expected under normal use. |
| Ingestion | : | Health injuries are not known or expected under normal use. |
| Inhalation | : | Health injuries are not known or expected under normal use. |
| Chronic Exposure | : | Health injuries are not known or expected under normal use. |

**Experience with human exposure**

| | | |
|---|---|---|
| Eye contact | : | No symptoms known or expected. |
| Skin contact | : | No symptoms known or expected. |
| Ingestion | : | No symptoms known or expected. |
| Inhalation | : | No symptoms known or expected. |

### 11.2 Information on other hazards

| | | |
|---|---|---|
| **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 |
| **Further information** | : | no data available |

## Section: 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

| | | |
|---|---|---|
| Environmental Effects | : | This product has no known ecotoxicological effects. |

**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 | : | Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt<br>96 h LC50 Danio rerio (zebra fish): 7.1 mg/l |

**Components**

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt<br>48 h EC50 Daphnia magna (Water flea): 7.4 mg/l |

**Components**

| | | |
|---|---|---|
| Toxicity to algae | : | Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt<br>72 h EC50 Desmodesmus subspicatus (green algae): 27.7 mg/l |

### 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 | : | Linear(C12-C14)alkanol, ethoxylated, sulfated, sodium salt<br>Result: Readily biodegradable. |

### 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 | : | Diluted product can be flushed to sanitary sewer if regulations permit. |
| Contaminated packaging | : | Dispose of in accordance with local, state, and federal regulations. |
| Guidance for Waste Code selection | : | Organic wastes containing not dangerous substances with concentration >= 0.1%. 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. |

## Section: 14. TRANSPORT INFORMATION

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 | : | Not dangerous goods |
| 14.2 UN proper shipping name | : | Not dangerous goods |
| 14.3 Transport hazard class(es) | : | Not dangerous goods |
| 14.4 Packing group | : | Not dangerous goods |
| 14.5 Environmental hazards | : | Not dangerous goods |
| 14.6 Special precautions for user | : | Not dangerous goods |

### Air transport (IATA)

| | | |
|---|---|---|
| 14.1 UN number or ID number | : | Not dangerous goods |
| 14.2 UN proper shipping name | : | Not dangerous goods |
| 14.3 Transport hazard class(es) | : | Not dangerous goods |
| 14.4 Packing group | : | Not dangerous goods |
| 14.5 Environmental hazards | : | Not dangerous goods |
| 14.6 Special precautions for user | : | Not dangerous goods |

### Sea transport (IMDG/IMO)

| | | |
|---|---|---|
| 14.1 UN number or ID | : | Not dangerous goods |

| | | |
|---|---|---|
| number | | |
| 14.2 UN proper shipping name | : | Not dangerous goods |
| 14.3 Transport hazard class(es) | : | Not dangerous goods |
| 14.4 Packing group | : | Not dangerous goods |
| 14.5 Environmental hazards | : | Not dangerous goods |
| 14.6 Special precautions for user | : | Not dangerous goods |
| 14.7 Maritime transport in bulk according to IMO instruments | : | Not dangerous goods |

## 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, Amphoteric surfactants, Non-ionic surfactants<br>Preservation agents:<br>Sodium benzoate |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | : | Not applicable. |
| 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.**

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 |
|---|---|
| Not a hazardous substance or mixture. | Calculation method |

**Full text of H-Statements**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| 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.

## Annex: Exposure Scenarios

### Exposure Scenario: Dishwash product. Manual process

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

**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 | |