# Oasis Pro 16 Premium

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

### 1.1 Product identifier

| | | |
|---|---|---|
| Product name | : | Oasis Pro 16 Premium |
| Product code | : | 113158E |
| Use of the Substance/Mixture | : | All Purpose Cleaner |
| 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 | : | Kitchen cleaner. Spray and wipe 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 Ltd.<br>PO Box 11; Winnington Avenue<br>Northwich, Cheshire, United Kingdom CW8 4DX<br>+ 44 (0)1606 74488<br>ccs@ecolab.com |

### 1.4 Emergency telephone number

| | | |
|---|---|---|
| Emergency telephone number | : | +441618841235<br>+32-(0)3-575-5555 Trans-European |
| Poison Information Centre telephone number | : | Not Available |

Date of Compilation/Revision : 31.07.2017
Version : 4.0

## Section: 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

| | |
|---|---|
| Skin corrosion, Category 1A | H314 |
| Serious eye damage, Category 1 | H318 |
| Chronic aquatic toxicity, Category 3 | H412 |

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)**

Hazard pictograms :

Signal Word : Danger

| | | | |
|---|---|---|---|
| Hazard Statements | : | H314 | Causes severe skin burns and eye damage. |
| | | H412 | Harmful to aquatic life with long lasting effects. |
| Supplemental Hazard Statements | : | EUH071 | Corrosive to the respiratory tract. |
| Precautionary Statements | : | **Prevention:** | |
| | | P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| | | P273 | Avoid release to the environment. |
| | | 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/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:
monoethanolamine
Fatty alcohol ethoxylates > 5EO

**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. | ClassificationREGULATION (EC) No 1272/2008 | Concentration: [%] |
|---|---|---|---|
| Fatty alcohol ethoxylates > 5EO | | Acute toxicity Category 4; H302<br>Serious eye damage Category 1; H318 | >= 10 - < 20 |
| fatty alcohol alkoxylate | | Skin irritation Category 2; H315 | >= 10 - < 20 |
| monoethanolamine | 141-43-5<br>205-483-3<br>01-2119486455-28 | Acute toxicity Category 4; H302<br>Acute toxicity Category 4; H332<br>Acute toxicity Category 4; H312<br>Skin corrosion Category 1B; H314<br>Serious eye damage Category 1; H318<br>Specific target organ toxicity - single exposure Category 3; H335 | >= 5 - < 10 |

| | | | |
|---|---|---|---|
| propan-2-ol | 67-63-0<br>200-661-7<br>01-2119457558-25 | Flammable liquids Category 2; H225<br>Eye irritation Category 2; H319<br>Specific target organ toxicity - single exposure Category 3; H336 | >= 3 - < 5 |
| Benzalkonium chloride | 68424-85-1<br>270-325-2<br>01-2119965180-41 | Acute toxicity Category 4; H302<br>Skin corrosion Category 1B; H314<br>Serious eye damage Category 1; H318<br>Acute aquatic toxicity Category 1; H400<br>Chronic aquatic toxicity Category 1; H410 | >= 0.5 - < 1 |

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 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. Use a mild soap if available. 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. 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

### 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 : Decomposition products may include the following materials: Carbon oxides

nitrogen oxides (NOx)
Sulphur oxides
Oxides of phosphorus

### 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

| | | |
|---|---|---|
| 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

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

### 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 | : | Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. |
| 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

Requirements for storage areas and containers : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : -5 °C to 40 °C

### 7.3 Specific end uses

Specific use(s) : Kitchen cleaner. Spray and wipe manual process

## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---|---|---|---|
| monoethanolamine | 141-43-5 | TWA | 1 ppm<br>2.5 mg/m3 | UKCOSSTD |
| Further information | Sk | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | |
| | | STEL | 3 ppm<br>7.6 mg/m3 | UKCOSSTD |
| Further information | Sk | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | |
| propan-2-ol | 67-63-0 | TWA | 400 ppm<br>999 mg/m3 | UKCOSSTD |
| | | STEL | 500 ppm<br>1,250 mg/m3 | UKCOSSTD |

DNEL

| | | |
|---|---|---|
| propan-2-ol | : | End Use: Workers<br>Exposure routes: Dermal<br>Potential health effects: Long-term systemic effects<br>Value: 888 mg/cm2 |
| | | End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term systemic effects<br>Value: 500 mg/m3 |
| | | End Use: Consumers<br>Exposure routes: Dermal<br>Potential health effects: Long-term systemic effects<br>Value: 319 mg/cm2 |
| | | End Use: Consumers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term systemic effects<br>Value: 89 mg/m3 |
| | | End Use: Consumers<br>Exposure routes: Ingestion<br>Potential health effects: Long-term systemic effects |

| | | |
|---|---|---|
| | | Value: 26 ppm |

PNEC

| | | |
|---|---|---|
| propan-2-ol | : | Fresh water<br>Value: 140.9 mg/l |
| | | Marine water<br>Value: 140.9 mg/l |
| | | Intermittent use/release<br>Value: 140.9 mg/l |
| | | Fresh water<br>Value: 552 mg/kg |
| | | Marine sediment<br>Value: 552 mg/kg |
| | | Soil<br>Value: 28 mg/kg |
| | | Sewage treatment plant<br>Value: 2251 mg/l |
| | | Oral<br>Value: 160 mg/kg |

**8.2 Exposure controls**

**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 : Personal protective equipment comprising: suitable protective

| | | |
|---|---|---|
| (EN 14605) | | gloves, safety goggles and protective clothing |
| Respiratory protection (EN 143, 14387) | : | When respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, 89/686/EEC), or equivalent, with filter type:A-P |

**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

| | | |
|---|---|---|
| Appearance | : | liquid |
| Colour | : | yellow |
| Odour | : | slight |
| pH | : | 11.4 - 12.4, 100 % |
| 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 |
| 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 (solid, gas) | : | 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 |
| Relative density | : | 1.015 - 1.02 |
| Water solubility | : | soluble |
| Solubility in other solvents | : | Not applicable and/or not determined for the mixture |
| Partition coefficient: n-octanol/water | : | 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

## 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

Acids

### 10.6 Hazardous decomposition products

Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)
Sulphur oxides
Oxides of phosphorus

## Section: 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

| | | |
|---|---|---|
| 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 | : | 4 h Acute toxicity estimate : > 5 mg/l |
| Acute dermal toxicity | : | Acute toxicity estimate : > 2,000 mg/kg |
| 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 : monoethanolamine
LD50 rat: 1,089 mg/kg

propan-2-ol
LD50 rat: 5,840 mg/kg

Benzalkonium chloride
LD50 rat: 344 mg/kg

**Components**

Acute inhalation toxicity : monoethanolamine
4 h LC50 rat: 1.6 mg/l

propan-2-ol
4 h LC50 rat: 30 mg/l

**Components**

Acute dermal toxicity : monoethanolamine
LD50 rabbit: 1,025 mg/kg

propan-2-ol
LD50 rabbit: 12,870 mg/kg

Benzalkonium chloride
LD50 rabbit: 3,340 mg/kg

**Potential Health Effects**

| | | |
|---|---|---|
| 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**

| | | |
|---|---|---|
| Eye contact | : | Redness, Pain, Corrosion |
| Skin contact | : | Redness, Pain, Corrosion |
| Ingestion | : | Corrosion, Abdominal pain |

| | | |
|---|---|---|
| Inhalation | : | Respiratory irritation, Cough |

## Section: 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

| | | |
|---|---|---|
| Environmental Effects | : | Harmful to aquatic life with long lasting 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 | : | propan-2-ol<br>96 h LC50 Pimephales promelas (fathead minnow): 9,640 mg/l |

**Components**

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | monoethanolamine<br>48 h EC50 Daphnia: 65 mg/l<br><br>propan-2-ol<br>LC50 Daphnia magna (Water flea): > 10,000 mg/l<br><br>Benzalkonium chloride<br>48 h EC50 Daphnia magna (Water flea): 0.016 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 | : | Fatty alcohol ethoxylates > 5EO<br>Result: Biodegradable<br><br>fatty alcohol alkoxylate<br>Result: Readily biodegradable.<br><br>monoethanolamine<br>Result: Readily biodegradable.<br><br>propan-2-ol<br>Result: Readily biodegradable.<br><br>Benzalkonium chloride<br>Result: 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 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 : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance 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.

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.

## 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 : 2491

14.2 UN proper shipping name : ETHANOLAMINE, SOLUTION

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 | : | 2491 |
| 14.2 UN proper shipping name | : | Ethanolamine solution |
| 14.3 Transport hazard class(es) | : | 8 |
| 14.4 Packing group | : | III |
| 14.5 Environmental hazards | : | No |
| 14.6 Special precautions for user | : | None |

**Sea transport (IMDG/IMO)**

| | | |
|---|---|---|
| 14.1 UN number | : | 2491 |
| 14.2 UN proper shipping name | : | ETHANOLAMINE SOLUTION |
| 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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | : | 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 | : | 15 % or over but less than 30 %: Non-ionic surfactants<br>less than 5 %: Anionic surfactants, Cationic surfactants<br>Other constituents: Perfumes |

**National Regulations**

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

| | | |
|---|---|---|
| Other regulations | : | The Chemicals (Hazard Information and Packaging for Supply) Regulations.<br>The Control of Substances Hazardous to Health Regulations.<br>Health and Safety at Work Act. |

**15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

## Section: 16. OTHER INFORMATION

**Procedure used to derive the classification according to REGULATION (EC) No 1272/2008**

| Classification | Justification |
|---|---|
| Skin corrosion 1A, H314 | On basis of test data. |
| Serious eye damage 1, H318 | Calculation method |
| Chronic aquatic toxicity 3, H412 | Calculation method |

**Full text of H-Statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic 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; AICS – Australian Inventory of Chemical Substances; 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; TCSI – Taiwan Chemical Substance 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

**DPD+ Substances:**

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

| Route | Substance | CAS-No. | EINECS-No. |
|---|---|---|---|
| Ingestion | monoethanolamine | 141-43-5 | 205-483-3 |
| Inhalation | propan-2-ol | 67-63-0 | 200-661-7 |
| Dermal | monoethanolamine | 141-43-5 | 205-483-3 |
| Eyes | Fatty alcohol ethoxylates > 5EO<br>monoethanolamine | 141-43-5 | 205-483-3 |
| aquatic environment | Benzalkonium chloride | 68424-85-1 | 270-325-2 |

**Physical properties DPD+ Substances:**

| Substance | Vapour pressure | Water solubility | Pow | Molar Mass |
|---|---|---|---|---|
| monoethanolamine | 0.488 hPa | > 1,000 g/l | 0.117 | |
| propan-2-ol | 6,020 Pa | | | 60.10 g/mol |
| monoethanolamine | 0.488 hPa | > 1,000 g/l | 0.117 | |
| Benzalkonium chloride | < 0.0000001 hPa | 403 g/l | | |

To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

**www.ecetoc.org/tra**

**Short title of Exposure Scenario** : **Kitchen cleaner. Spray and wipe manual process**

**Use descriptors**

Main User Groups : Professional uses: Public domain (administration, education,

| | | |
|---|---|---|
| | | entertainment, services, craftsmen) |
| Sectors of end-use | : | **SU22:** Professional uses: Public domain (administration, education, entertainment, services, craftsmen) |
| Process categories | : | **PROC10:** Roller application or brushing<br>**PROC11:** Non industrial spraying<br>**PROC8a:** Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities |
| Product categories | : | **PC35:** Washing and cleaning products (including solvent based products) |
| Environmental Release Categories | : | **ERC8a:** Wide dispersive indoor use of processing aids in open systems |