# SYSCO ESSENTIALS LAUNDRY DETERGENT NON-BIO

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

### 1.1 Product identifier

| | | |
|---|---|---|
| Product name | : | SYSCO ESSENTIALS LAUNDRY DETERGENT NON-BIO |
| Product code | : | 123969E |
| Use of the Substance/Mixture | : | Laundry 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 | : | Laundry detergent. Semi automatic process<br>Laundry detergent. Manual process |
| Recommended restrictions on use | : | Reserved for industrial and professional use. |

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

| | | |
|---|---|---|
| Company | : | Sysco GB<br>Enterprise House, Eureka Business Park<br>Ashford, Kent, TN25 4AG England 0345 606 9090<br>customer.service@brake.co.uk |

### 1.4 Emergency telephone number

| | | |
|---|---|---|
| Emergency telephone number | : | +32-(0)3-575-5555 Trans-European |

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## Section: 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

| | |
|---|---|
| Serious eye damage, Category 1 | H318 |

### 2.2 Label elements

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

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H318 Causes serious eye damage.

Precautionary Statements : **Prevention:**
P280 Wear eye protection/face protection.
**Response:**
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:
Alcohols, C13-15, branched and linear, ethoxylated (7EO)

**Additional Labelling:**
Special labelling of certain mixtures : Contains: glutaraldehyde, May produce an allergic reaction.

### 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 : [%] |
|---|---|---|---|
| Alcohols, C13-15, branched and linear, ethoxylated (7EO) | 157627-86-6<br>POLYMER | Acute toxicity Category 4; H302<br>Serious eye damage Category 1; H318<br>Chronic aquatic toxicity Category 3; H412 | >= 3 - < 10 |
| Alcohols, C13-15-branched and linear, ethers with ethyloxirane-oxirane polymer mono-Meether | 113089-47-7 | Skin irritation Category 2; H315<br>Acute aquatic toxicity Category 1; H400<br>Chronic aquatic toxicity Category 3; H412<br><br>M = 1 | >= 1 - < 2.5 |
| Sodium p-cumenesulphonate | 15763-76-5<br>239-854-6<br>01-2119489411-37 | Eye irritation Category 2; H319 | >= 1 - < 10 |
| glutaraldehyde | 111-30-8<br>203-856-5<br>01-2119455549-26 | Acute toxicity Category 3; H301<br>Acute toxicity Category 2; H330<br>Skin corrosion Sub-category 1B; H314<br>Serious eye damage Category 1; H318<br>Respiratory sensitization Category 1; H334<br>Skin sensitization Sub-category 1A; H317<br>Acute aquatic toxicity Category 1; H400<br>Chronic aquatic toxicity Category 2; H411<br>Specific target organ toxicity - single | >= 0.025 - < 0.1 |

| | | | |
|---|---|---|---|
| | | exposure Category 3; H335<br><br>Specific target organ toxicity - single exposure Category 3<br>H335 0.5 - 100 % | |

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 | : | Rinse with plenty of water. |
| If swallowed | : | Rinse mouth. Get medical attention if symptoms occur. |
| 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 | : | Depending on combustion properties, decomposition products may include following materials:<br>Carbon oxides<br>Sulphur oxides<br>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

| | | |
|---|---|---|
| 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). 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 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

| | | |
|---|---|---|
| Requirements for storage areas and containers | : | Protect from frost, heat and sunlight. Store at room temperature in the original container. 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) : Laundry detergent. Semi automatic process
Laundry detergent. 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 |
|---|---|---|---|---|
| glutaraldehyde | 111-30-8 | TWA | 0.05 ppm<br>0.2 mg/m3 | UKCOSSTD |
| Further information | Sen | Capable of causing occupational asthma. | | |
| | | STEL | 0.05 ppm<br>0.2 mg/m3 | UKCOSSTD |
| Further information | Sen | Capable of causing occupational asthma. | | |

### 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 : 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) : 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

| | | |
|---|---|---|
| Appearance | : | liquid |
| Colour | : | clear, light blue |
| Odour | : | odourless |
| pH | : | 5.5 - 6.0, 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 | : | > 100 °C |
| 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 | : | 1.0 - 1.003 |
| Water solubility | : | Not applicable and/or not determined for the mixture |
| 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**

None known.

**10.6 Hazardous decomposition products**

In the event of fire, see Section 5

## 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 | : | 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 | : | Alcohols, C13-15, branched and linear, ethoxylated (7EO) LD50 rat: 2,000 mg/kg<br><br>Sodium p-cumenesulphonate LD50 rat: > 7,000 mg/kg<br><br>glutaraldehyde LD50 rat: 150 mg/kg |

**Components**

| | | |
|---|---|---|
| Acute inhalation toxicity | : | glutaraldehyde 4 h LC50 rat: 0.28 mg/l<br>Test atmosphere: dust/mist |

**Components**

| | | |
|---|---|---|
| Acute dermal toxicity | : | Alcohols, C13-15, branched and linear, ethoxylated (7EO) LC50 rat: > 2,000 mg/kg |

**Potential Health Effects**

| | | |
|---|---|---|
| Eyes | : | Causes serious eye damage. |
| 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 | : | Redness, Pain, Corrosion |
| Skin contact | : | No symptoms known or expected. |
| Ingestion | : | No symptoms known or expected. |
| Inhalation | : | No symptoms known or expected. |

## 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 | : | Alcohols, C13-15, branched and linear, ethoxylated (7EO)96 h LC50 Brachydanio rerio (zebrafish): 5 mg/l<br><br>Alcohols, C13-15-branched and linear, ethers with ethyloxirane-oxirane polymer mono-Meether96 h LC50 Leuciscus idus (Golden orfe): > 1 mg/l<br><br>Sodium p-cumenesulphonate96 h LC50 Oncorhynchus mykiss (rainbow trout): > 1,000 mg/l<br><br>glutaraldehyde96 h LC50 Oncorhynchus mykiss (rainbow trout): 0.8 mg/l |

**Components**

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | Alcohols, C13-15, branched and linear, ethoxylated (7EO)48 h EC50 Daphnia magna (Water flea): 5 mg/l<br><br>Alcohols, C13-15-branched and linear, ethers with ethyloxirane-oxirane polymer mono-Meether48 h EC50 Daphnia magna Straus: 0.1 mg/l<br>Test substance: Information given is based on data obtained from similar substances.<br><br>glutaraldehyde48 h EC50 Daphnia magna (Water flea): 0.35 mg/l |

**Components**

| | | |
|---|---|---|
| Toxicity to algae | : | Alcohols, C13-15, branched and linear, ethoxylated (7EO)72 h EC50 Scenedesmus subspicatus: 5 mg/l<br><br>Alcohols, C13-15-branched and linear, ethers with ethyloxirane-oxirane polymer mono-Meether96 h EC50 Selenastrum capricornutum (green algae): 0.1 mg/l<br>Test substance: Information given is based on data obtained from similar substances.<br><br>Sodium p-cumenesulphonate96 h EC50 Pseudokirchneriella subcapitata (algae): > 230 mg/l<br><br>glutaraldehyde72 h EC50 Scenedesmus quadricauda (Green algae): 0.6 mg/l<br>72 h NOEC Scenedesmus quadricauda (Green algae): 0.025 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 | : | Alcohols, C13-15, branched and linear, ethoxylated (7EO)Result: Readily biodegradable.<br><br>Alcohols, C13-15-branched and linear, ethers with ethyloxirane-oxirane polymer mono-MeetherResult: Biodegradable<br><br>Sodium p-cumenesulphonateResult: Readily biodegradable.<br><br>glutaraldehydeResult: 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 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 | : | 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. |
| 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 | : | 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 | : | Not dangerous goods |
| 14.2 UN proper shipping | : | Not dangerous goods |

| | | |
|---|---|---|
| name | | |
| 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 | : | 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 |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | : | 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 | : | 5 % or over but less than 15 %: Non-ionic surfactants<br>less than 5 %: Anionic surfactants<br>Preservation agents:<br>glutaraldehyde |
| 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 | : | 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**

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 |
|---|---|
| Serious eye damage 1, H318 | Calculation method |

**Full text of H-Statements**

| | |
|---|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| 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

**Further information**

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: Laundry detergent. 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 | |

**Exposure Scenario: Laundry detergent. Semi automatic 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 | : | **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 | |

**Contributing scenario controlling worker exposure for:**

| | | | |
|---|---|---|---|
| Process category | : | **PROC1** | Use in closed process, no likelihood of exposure |
| 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 | |