

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

Product name : SMARTPOWER POWER

Product code : 119313E

Use of the Substance/Mixture : Machine Warewashing Detergent

Substance type: : Mixture

**For professional users only.**

Product dilution information : 0.12 % - 0.2 %

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

Identified uses : Dishwash and rinse aid product; Automatic 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.  
PO Box 11; Winnington Avenue  
Northwich, Cheshire, United Kingdom CW8 4DX  
+ 44 (0)1606 74488  
ccs@ecolab.com

**1.4 Emergency telephone number**

Emergency telephone number : +441618841235  
+32-(0)3-575-5555 Trans-European

Poison Information Centre telephone number : For medical professionals only: 0344 892 0111

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Version : 1.2

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

Eye irritation, Category 2 H319  
Chronic aquatic toxicity, Category 3 H412

**SMARTPOWER POWER****Product AT USE DILUTION**

Not a hazardous substance or mixture.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)****Product AS SOLD**

Hazard pictograms

:



Signal Word

: Warning

Hazard Statements

: H319  
H412

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**  
P273

Avoid release to the environment.

**Product AT USE DILUTION**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

**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.<br>EC-No.<br>REACH No.              | Classification<br>REGULATION (EC) No 1272/2008                                                                                                                                                                                  | Concentration<br>: [%] |
|----------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Sodium Carbonate                             | 497-19-8<br>207-838-8<br>01-2119485498-19   | Eye irritation Category 2; H319                                                                                                                                                                                                 | $\geq 50$ - $\leq 100$ |
| Phosphonates                                 | 67953-76-8<br>267-956-0<br>01-2119510384-48 | Acute toxicity Category 4; H302                                                                                                                                                                                                 | $\geq 2.5$ - $< 5$     |
| Sodium dichloro-s-triazinetrione dihydrate   | 51580-86-0<br>220-767-7<br>01-2119489371-33 | Acute toxicity Category 4; H302<br>Eye irritation Category 2; H319<br>Specific target organ toxicity - single exposure Category 3; H335<br>Acute aquatic toxicity Category 1; H400<br>Chronic aquatic toxicity Category 1; H410 | $\geq 0.5$ - $< 1$     |
| Substances with a workplace exposure limit : |                                             |                                                                                                                                                                                                                                 |                        |
| aluminium sodium dioxide                     | 1302-42-7<br>215-100-1<br>01-2119519249-35  | Corrosive to metals Category 1; H290<br>Skin corrosion Sub-category 1A; H314<br>Serious eye damage Category 1; H318                                                                                                             | $\geq 0.1$ - $< 0.25$  |

**SMARTPOWER POWER**

**Product AT USE DILUTION**

Remarks : No hazardous ingredients

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**

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.

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.

**Product AT USE DILUTION**

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 : 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:  
Carbon oxides  
Oxides of phosphorus

**SMARTPOWER POWER**

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 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 : 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 : No special environmental precautions required.

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

**Product AS SOLD**

Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.

**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**

**SMARTPOWER POWER****7.1 Precautions for safe handling****Product AS SOLD**

Advice on safe handling : Avoid contact with skin and eyes. Use only with adequate ventilation. Wash hands thoroughly after handling. 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.

**Product AT USE DILUTION**

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****Product AS SOLD**

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 50 °C

**Product AT USE DILUTION**

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.

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

Specific use(s) : Dishwash and rinse aid product; Automatic 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    |
|--------------------------|-----------|-------------------------------|------------------------------------|----------|
| aluminium sodium dioxide | 1302-42-7 | TWA                           | 2 mg/m <sup>3</sup><br>(Aluminium) | UKCOSSTD |

**DNEL**

|                  |   |                                                                                                                                     |
|------------------|---|-------------------------------------------------------------------------------------------------------------------------------------|
| Sodium Carbonate | : | End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term local effects<br>Value: 10 mg/m <sup>3</sup> |
|------------------|---|-------------------------------------------------------------------------------------------------------------------------------------|

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|      |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |   | End Use: Consumers<br>Exposure routes: Inhalation<br>Potential health effects: Acute local effects<br>Value: 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| HEDP | : | End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term systemic effects<br>Value: 12 mg/m <sup>3</sup><br><br>End Use: Workers<br>Exposure routes: Dermal<br>Potential health effects: Long-term systemic effects<br>Value: 34 mg/m <sup>3</sup><br><br>End Use: Consumers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term systemic effects<br>Value: 2.95 mg/m <sup>3</sup><br><br>End Use: Consumers<br>Exposure routes: Dermal<br>Potential health effects: Long-term systemic effects<br>Value: 17 mg/m <sup>3</sup><br><br>End Use: Consumers<br>Exposure routes: Oral<br>Potential health effects: Long-term systemic effects<br>Value: 1.7 mg/m <sup>3</sup><br><br>End Use: Consumers<br>Exposure routes: Oral<br>Potential health effects: Long-term systemic effects<br>Value: 1.7 mg/m <sup>3</sup> |

**8.2 Exposure controls****Product AS SOLD****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.

Eye/face protection (EN 166) : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

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

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

Respiratory protection (EN 143, 14387) : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

**Product AT USE DILUTION**

**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**

|                                         | <b>Product AS SOLD</b>                                 | <b>Product AT USE DILUTION</b> |
|-----------------------------------------|--------------------------------------------------------|--------------------------------|
| Appearance                              | : solid                                                | liquid                         |
| Colour                                  | : white                                                | colourless                     |
| Odour                                   | : Chlorine                                             | Chlorine                       |
| pH                                      | : 10.65 - 11.4, 1 %                                    | 10.65 - 11.4                   |
| 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 |                                |

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|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| 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                       | : 1.2 - 1.7                                                |
| 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**

VOC : Not applicable.

**Section: 10. STABILITY AND REACTIVITY**

**Product AS SOLD**

**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  
Oxides of phosphorus  
metal oxides

**Section: 11. TOXICOLOGICAL INFORMATION**

**SMARTPOWER POWER**

**11.1 Information on toxicological effects**

**Product AS SOLD**

Information on likely routes of exposure : 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 : Sodium Carbonate LD50 rat: 2,800 mg/kg

Phosphonates LD50 rat: 940 mg/kg

Sodium dichloro-s-triazinetriene dihydrate LD50 rat: 1,823 mg/kg

**Potential Health Effects**

**Product AS SOLD**

Eyes : Causes serious eye irritation.

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.

**Product AT USE DILUTION**

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|                  |                                                               |
|------------------|---------------------------------------------------------------|
| 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****Product AS SOLD**

|              |                                  |
|--------------|----------------------------------|
| Eye contact  | : Redness, Pain, Irritation      |
| Skin contact | : No symptoms known or expected. |
| Ingestion    | : No symptoms known or expected. |
| Inhalation   | : No symptoms known or expected. |

**Product AT USE DILUTION**

|              |                                  |
|--------------|----------------------------------|
| 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. |

**Section: 12. ECOLOGICAL INFORMATION****12.1 Toxicity****Product AS SOLD**

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Environmental Effects | : Harmful to aquatic life with long lasting 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 | : Sodium Carbonate 96 h LC50 <i>Lepomis macrochirus</i> (Bluegill sunfish): 300 mg/l<br><br>Sodium dichloro-s-triazinetrione dihydrate 96 h LC50 <i>Oncorhynchus mykiss</i> (rainbow trout): 0.26 mg/l<br><br>aluminium sodium dioxide 96 h EC50 <i>Salmo trutta</i> (brown trout): > 100 mg/l<br>Test substance: Information given is based on data obtained from |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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similar substances.

**Components**

Toxicity to daphnia and other aquatic invertebrates : Sodium Carbonate 48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l

Phosphonates 48 h EC50: 167 mg/l

Sodium dichloro-s-triazinetrione dihydrate 48 h EC50 Daphnia magna (Water flea): 0.196 mg/l

**Components**

Toxicity to algae : Sodium dichloro-s-triazinetrione dihydrate 72 h EC50 Navicula pelliculosa (Freshwater diatom): 2,700 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 : Sodium Carbonate Result: Not applicable - inorganic

Phosphonates Result: Poorly biodegradable

Sodium dichloro-s-triazinetrione dihydrate Result: Poorly biodegradable

aluminium sodium dioxide 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 Other adverse effects**

no data available

**Section: 13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste

**SMARTPOWER POWER**

codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

**13.1 Waste treatment methods****Product AS SOLD**

- |                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                           | : | Do not contaminate storm water drains, natural waterways or soil with chemical or used container. 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 | : | Inorganic 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                | : | Diluted product can be flushed to sanitary sewer if regulations permit. |
| Contaminated packaging | : | 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                    | : | 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 name    | : | Not dangerous goods |
| 14.3 Transport hazard class(es) | : | Not dangerous goods |

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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 %: Phosphates, Phosphonates  
less than 5 %: Non-ionic surfactants, Chlorine-based bleaching agents

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.  
The Control of Substances Hazardous to Health 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 |
|----------------|---------------|
|----------------|---------------|

**SMARTPOWER POWER**

|                                  |                    |
|----------------------------------|--------------------|
| Eye irritation 2, H319           | Calculation method |
| Chronic aquatic toxicity 3, H412 | Calculation method |

**Full text of H-Statements**

|      |                                                       |
|------|-------------------------------------------------------|
| H290 | May be corrosive to metals.                           |
| H302 | Harmful if swallowed.                                 |
| H314 | Causes severe skin burns and eye damage.              |
| H318 | Causes serious eye damage.                            |
| H319 | Causes serious eye irritation.                        |
| H335 | May cause respiratory irritation.                     |
| 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; 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; TECl - 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

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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 and rinse aid product; 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 : **PROC3** Use in closed batch process (synthesis or formulation)

Exposure duration : 480 min

Operational conditions and risk management measures : Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

**SMARTPOWER POWER**

Skin Protection : see section 8

Respiratory Protection : see section 8