

Nordic Ecolabelling of
**Dishwasher detergents for
professional use**



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080 Dishwasher detergents for professional use, version 2.9, 10 April 2019

This document is a translation of an original in Swedish. In case of dispute, the original document should be taken as authoritative.

Addresses

In 1989, the Nordic Council of Ministers decided to introduce a voluntary official ecolabel, the Nordic Swan Ecolabel. These organisations/companies operate the Nordic Ecolabelling system on behalf of their own country's government. For more information, see the websites.

Denmark

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DK-2150 Nordhavn
Fischersgade 56, DK-9670 Løgstør
Phone +45 72 300 450
E-mail: info@ecolabel.dk
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Norway

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www.svanemarket.no

Iceland

Ecolabelling Iceland
Umhverfisstofnun
Suðurlandsbraut 24
IS-108 Reykjavik
Phone +354 591 20 00
E-mail: ust@ust.is
www.svanurinn.is

Sweden

Ecolabelling Sweden
Box 38114
SE-100 64 Stockholm
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E-mail: info@svanen.se
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Finland

Ecolabelling Finland
Uhro Kekkosen katu 4-6 E
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What is a Nordic Swan Ecolabelled dishwasher detergent?

A Nordic Swan Ecolabelled dishwasher detergent for professional use, or multi-component system, is one of the least environmentally harmful options available in its product group. The dishwasher detergent fulfils stringent requirements on the health and environmental characteristics of its ingredients as well as performance and efficiency.

Nordic Swan Ecolabelled dishwasher detergents for professional use:

- Contain limited amounts of environmentally hazardous and harmful substances.
- Contain readily biodegradable substances.
- Perform equally or better than equivalent products designed for the same function.
- Have an optimal dosage, which is checked during customer visits

Dirty dishwater is treated and released into nature. It is therefore vital that all constituent substances are readily biodegradable. The dishwasher detergent must not contain bioaccumulating or toxic substances that can upset the ecosystem.

Many fragrances are allergenic and ecotoxic. Some preservatives bioaccumulate while others are more environmentally suitable. Accordingly, Nordic Ecolabelling prohibits the use of fragrances and limits the use of preservatives.

An important Nordic Ecolabelling requirement is that dishwasher detergents for professional use shall perform on a par or better than established products.

In comparative testing, the results at the recommended dosage must be satisfactory. This is also checked through regular inspection visits.

Why choose the Nordic Swan Ecolabel?

- The producer may use the Swan trademark for marketing purposes. The Nordic Swan Ecolabel is a very well-known and well-reputed trademark in the Nordic region.
- The Nordic Swan Ecolabel is a cost-effective and simple way of communicating environmental work and commitment to customers and suppliers.
- Reducing environmental impact often creates scope for lowering costs, such as by cutting the consumption of energy and reducing amounts of packaging and waste.
- Environmental issues are complex. It can take a long time and extensive resources to gain an understanding of a specific area. The Nordic Swan Ecolabel can be seen as an aid in this work.
- The Nordic Swan Ecolabel not only covers environmental issues but also quality requirements, since the environment and quality often go hand in hand. This means that a Swan licence can also be seen as a mark of quality.

What can carry the Nordic Swan Ecolabel?

These criteria apply to single and multi-component dishwasher detergents, rinse aids and presoaks for professional use within institutions and catering centres. The criteria also covers products that are used in washer-disinfectors destined for instrument maintenance in health care. Products that are designed for a wash cycle of less than 20 minutes are considered professional products, ie also including products for hybride/semi-professional machines. The maximal length of the wash cycle within health care is 30 minutes. The maximal time does not concern presoaks. Dishwasher detergents for special machines used in food production, dairies, etc., are not included. The criteria also include routines for customer visits.

How to apply

Each requirement is marked with the letter R (requirement) and a number. All requirements must be fulfilled for the award of a licence.

Icons in the text

The text describes how the applicant shall demonstrate fulfilment of each requirement. There are also icons in the text to make this clearer. These icons are:

- ☒ Enclose
- 📍 Requirement checked on site

Application

The application shall be sent to Nordic Ecolabelling in the country in which the dishwasher detergent, rinse aid or presoak is sold/the applicant carries on activities. See page 2 for addresses. The documents required for application are an application form and documentation demonstrating fulfilment of the requirements (specified under each requirement).

Further information and assistance may be available. Visit the Web site of the national ecolabelling body for more information.

On-site inspection

During the application process, Nordic Ecolabelling performs an on-site inspection to ensure adherence to the requirements. For this inspection, data used for calculations, original copies of submitted certificates, test records, purchase statistics, and similar documents that support the application must be available for examination.

Costs

An application fee is charged to companies applying for a licence. There is an additional annual fee based on the turnover of the Nordic Swan Ecolabelled product.

Enquiries

Please contact Nordic Ecolabelling if you have any queries or require further information. See page 2 for addresses.

1 Environmental requirements

The environmental criteria are divided into two sections: Section 1.1 contains general requirements that apply to all products and all components in a multi-component system.

Section 1.2 specifies requirements that apply to a single component detergent or an entire multi-component system. The requirements in Section 1 apply to all ingoing substances unless specified otherwise.

The requirements in the criteria document and accompanying appendices apply to all ingoing substances in the Nordic Swan Ecolabelled product. Impurities are not regarded as ingoing substances and are exempt from the requirements.

Ingoing substances and impurities are defined below, unless stated otherwise in the requirements

- Ingoing substances: all substances in the Nordic Swan Ecolabelled product, including additives (e.g. preservatives and stabilisers) in the raw materials. Substances known to be released from ingoing substances (e.g. formaldehyde, arylamine, in situ-generated preservatives) are also regarded as ingoing substances.
- Impurities: residuals, pollutants, contaminants etc. from production, incl. production of raw materials that remain in the raw material/ingredient and/or in the in the Nordic Swan Ecolabelled product in concentrations less than 100 ppm (0,0100 w-%, 100 mg/kg) in the Nordic Swan Ecolabelled product.
- Impurities in the raw materials exceeding concentrations of ≥ 10000 ppm ($\geq 0,1000$ w-%, ≥ 10000 mg/kg) are always regarded as ingoing substances, regardless of the concentration in the Nordic Swan Ecolabelled product.

Examples of impurities are residues of the following: residues or reagents incl. residues of monomers, catalysts, by-products, scavengers, and detergents for production equipment and carry-over from other or previous production lines.

The requirements in Section 1.1 and 1.2 are based on the highest recommended dosage in grams of product per litre water.

1.1	<p>General requirements (applies to all products including all components of multi-component systems)</p>	<p>Are the requirements met?</p>
R1	<p>Description of the product</p> <p>The applicant must provide a detailed description of the dishwasher detergent, rinse aid or presoak for which the Nordic Swan Ecolabel is sought. The description shall contain:</p> <ul style="list-style-type: none"> ▫ Descriptions of the products forming part of a multi-component system. ▫ Documents supporting that the product is a professional product, with reference to “What can carry the Nordic Swan Ecolabel?” above. <p>☒ Specification complying with the above.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Appendix no. _____</p>
R2	<p>Recipe</p> <p>The Complete recipe for the product/products of the dishwasher detergent, rinse aid or presoak shall be submitted as well as the highest recommended dosage. If the application is for a multi-component system, details must be provided of all the components. The recipe shall clearly state all constituent substances with name and possible CAS number, as well as their function and their proportion as a percentage. In cases where an ingredient comprises several substances, what the particular ingredient contains shall be declared. All of the following parameters must be evident from the submitted information:</p> <ul style="list-style-type: none"> • Producer • Trade name • Function of each ingredient • Chemical name • CAS no. • DID no. (for substances that can be placed on the list) • Quantity of each ingredient and constituent substances (including and excluding water) • Classification according to Council Directive 67/548/EEC and Council Directive 1999/45/EC with amendments. <p>The DID number is the number assigned to the ingredient on the DID list, which is used for the evaluation of chemical requirements. The DID list is available from Nordic Ecolabelling. See page 2 for addresses.</p> <p>DID list: “Detergent Ingredient Database” list. See Appendix 4 for further information.</p> <p>☒ Complete recipe for the product/products as specified above.</p> <p>☒ Material safety data sheet/product data sheet complying with applicable legislation in the country of application such as Annex II of REACH (Council Regulation 1907/2006/EEC) and later additions and changes thereto for each ingredient.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Appendix no. _____</p> <p>Appendix no. _____</p>
R3	<p>Classification of the product</p> <p>Products must not be classified as specified in Table 1 according to CLP Regulation 1272/2008 with amendments.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>

Table 1 Product classification

CLP Regulation 1272/2008		
Classification	Hazard Class and Category Code	Hazard statement
Hazardous to the aquatic environmentt	Aquatic Acute 1	H400
	Aquatic Chronic 1	H410
	Aquatic Chronic 2	H411
	Aquatic Chronic 3	H412
	Aquatic Chronic 4	H413
Carcino-genicity*	Carc. 1A or 1B	H350
	Carc. 2	H351
Germ cell muta-genicity*	Muta. 1A or 1B	H340
	Muta. 2	H341
Reproductive toxicity*	Repr. 1A or 1B	H360
	Repr. 2	H361
	-	H362
Acute toxicity**	Acute Tox 1 or 2	H300
	Acute Tox 1 or 2	H310
	Acute Tox 1 or 2	H330
	Acute Tox 3	H301
	Acute Tox 3	H311
	Acute Tox 3	H331
	Acute Tox 4	H302
	Acute Tox 4	H312
	Acute Tox 4	H332
Specific target organ toxicity, singel or repeated exposure	STOT SE 1	H370
	STOT SE 2	H371
	STOT RE 1	H372
	STOT RE 2	H373
Skin corrosion/irritation***	Skin Corr. 1A, 1B or 1C	H314
Aspiration hazard	Asp. Tox. 1	H304
Respiratory or skin	Resp. Sens. 1, 1A or 1B	H334
	Skin Sens. 1, 1A or 1B	H317

* The classifications concern all classification variants. For example, H350 also covers classification H350i.

** Classifications Acute toxicity category 4 H662, H312 and/or H302 are permitted if the packaging is so designed that the user does not come into contact with the product

***Exemption for automatically dosed product and manually dosed presoaks where the in-use-solution is not classified as corrosive at the highest recommended dosage. Corrosive manually dosed presoaks have to be sold with a pump for dosing or be connected to via product hose to a water source mixing the product to an "in-use-solution". The pump needs to be designed to provide correct dosage at the same time as it is minimizing the risk of exposure.

Products in containers smaller than 1 litre do not need to be sold together with a pump if the packaging has a childproof closure in accordance with ISO 9327:2004

Further information on risk phrases can be found in Appendix 6.

Please note that the manufacturer is responsible for the correct classification.



Material safety data sheet for the product complying with applicable legislation in the country of application such as Annex II of REACH (Council Regulation 1907/2006/EEC) and later additions and changes thereto.

Appendix no. _____

R4 Classification of constituent substances

Yes No

Substances in the product or in the iraw materials must not be classified in accordance with table 2 below according to CLP Regulation 1272/2008 with amendments.

Table 2 Classification of constituent substances

CLP Regulation 1272/2008		
Classification	Hazard Class and Category Code	Hazard statement
Carcinogenicity*	Carc. 1A or 1B Carc. 2	H350 H351
Germ cell mutagenicity*	Muta. 1A or 1B Muta. 2	H340 H341
Reproductive toxicity*	Repr. 1A or 1B Repr. 2 -	H360 H361 H362
Respiratory or skin	Resp. Sens. 1, 1A or 1B Skin Sens. 1, 1A or 1B	H334 H317

*The classifications concern all classification variants. For example, H350 also covers classification H350i.

** Enzymes and preservatives are exempted from this – See separate requirements R6 and R8 on enzymes and preservatives.

Material safety data sheet complying with applicable legislation in the country of application such as Annex II of REACH (Council Regulation 1907/2006/EEC) for each ingredient. Appendix no. _____

Appendix 2 and 3 duly completed and signed, or equivalent signed declarations. Appendix no. _____

R5 Surfactants

Yes No

All surfactants (irrespective of function) must display ready biodegradability under aerobic conditions in accordance with OECD Guidelines for the Testing of Chemicals, test no. 301 A F, or other equivalent scientifically proven test method. This is also a legal requirement for this category of products.

All surfactants must display biodegradability under anaerobic conditions according to ISO 11734, ECETOC no. 28 or equivalent test method. Documentation shall primarily refer to the DID list of 2007 or later. For surfactants not covered by the DID list, other documentation such as test reports and literature references may be submitted.

The DID list (Detergents Ingredients Database) is available on the Nordic Ecolabelling webpages (addresses page 2). The list can also be found on: http://ec.europa.eu/environment/ecolabel/ecolabelled_products/categories/pdf/did_list/didlist_part_a_en.pdf

The documentation of the surfactants shall primarily refer to the DID list dated January 2007 or later. For surfactants not found on the DID list, other documentation such as test reports and literature references may be submitted (see Appendix 4). Appendix no. _____

R6	<p>Enzymes</p> <p>Enzymes must be in liquid form or dust-free granulate. Enzymes must be free from micro-organism remnants from manufacture. Products in spray bottles or designed for use in spray bottles or equivalent must not contain enzymes.</p> <p>The producer of the dishwasher detergent, rinse aid or presoak must take precautionary measures to ensure that users are not exposed to enzymes. Special protective equipment shall protect against high levels of exposure.</p> <p>☒ Specification from the enzyme producer or details on the MSDS/product data sheet in accordance with the requirement.</p> <p>☒ Description of measures and methods to protect users.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Appendix no. _____</p> <p>Appendix no. _____</p>
R7	<p>Prohibited substances</p> <p>The following constituent substances are prohibited from use in the product and ingredients:</p> <ul style="list-style-type: none"> • Fragrances • Reactive chlorine compounds • Borates and perborates • APEO (Alkyl phenol ethoxylates) • APD (Alkylphenol derivatives) • NTA (MGDA and GLDA complexing agents may however contain NTA contaminants in concentrations < 1.0%, as long as the concentration in the final product is < 0.10%) • EDTA and associated salts • Substances with potential for endocrine disruption of Category 1 or 2 in accordance with official EU lists. The EU report on endocrine disrupters can be read in full at http://ec.europa.eu/environment/chemicals/endocrine/pdf/final_report_2007.pdf • Nanomaterials/particles (size < 100 nm) based on metal, carbon and/or fluorine compounds • Substances that have been evaluated in the EU to be PBT or vPvB (see http://ecb.jrc.ec.europa.eu/esis/index.php?PGM=pbt) • LAS (Linear alkylbenzene sulphonates) • DADMAC (Diallyl dimethyl ammonium chloride) <p>☒ Complete recipe for the product/products, as in requirement 2.</p> <p>☒ Appendix 2 and 3 duly completed and signed, or equivalent signed declaration.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Appendix no. _____</p> <p>Appendix no. _____</p>
R8	<p>Preservatives</p> <p>The product may contain preservatives provide that the preservatives are not bioaccumulating. A preservative is not considered bioaccumulating if $BCF < 500$ or $\log K_{ow} < 4.0$. If both BCF and $\log K_{ow}$ values are available, the highest measured BCF value shall be used.</p> <p>The concentration of every single substance classified as sensitizing, shall be < 0,10 %.</p> <p>☒ Documentation of BCF or $\log K_{ow}$.</p> <p>☒ Complete recipe for the product/products- see K2.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Appendix no. _____</p> <p>Appendix no. _____</p>
R9	<p>Colouring agents</p> <p>Colouring agents must not be considered bioaccumulating. A colouring agent is not considered bioaccumulating if $BCF < 500$ or $\log K_{ow} < 4.0$. If both BCF and $\log K_{ow}$ values are available, the highest measured BCF value shall be used. Colouring agents approved for use in foodstuffs can be approved.</p> <p>☒ Documentation of BCF or $\log K_{ow}$ or specification of E-number for the colouring agent.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Appendix no. _____</p>

1.2 Total content of chemicals

Are the requirements met?

The following section applies to a single component system of dishwasher detergent, rinse aid and presoak for professional use or the total quantity in the components of a multi-component system.

All components of a multi-component system for which the Nordic Swan Eco-label is sought must be included in the calculations. The calculations shall be based on the highest recommended dosage if the instructions specify different intervals. The limits in the criteria are set in (m)g / litre water, referring to (m)g / litre in-use-solution and (m)g / litre water in the dishwasher. All limit values exclude water.

R10 Environmentally hazardous substances

Yes No

Substances that are classified as environmentally hazardous are permitted in limited quantities in single component dishwasher detergents and in multi-component dishwasher detergent systems.

The inclusion of substances that are classified as Hazardous to the aquatic environment Category Chronic 1 H410, Category Chronic 2 H411 or Category Chronic 3 H412 is limited as specified below.

$$100 * A_{H410} + 10 * A_{H411} + A_{H412} \leq 0,40 \text{mg/ litre water}$$

At the highest recommended dose:

A_{H410} is the quantity of substances assigned R50/53 or H410 classification in milligrams per litre water.

A_{H411} is the quantity of substances assigned R51/53 or H411 classification in milligrams per litre water.

A_{H412} is the quantity of substances assigned R52/53 or H412 classification in milligrams per litre water.

Proteas/subtilisin classified as Aquatic Chronic 2 (H411) is exempted from the requirement, see further handling of enzymes i requirement O6. Note that the product also must fulfil the requirement O3 regarding classification of the product.

Surfactants classified with H412 are exempted from the requirement, provided that they are readily degradable* and anaerobically degradable**.

* In accordance to the DID-list or test method No. 301 A-F or No. 310 in OECD guidelines for testing of chemicals or other equivalent test methods.

** In accordance to the DID-list or ISO 11734, ECETOC No. 28 (June 1988) or other equivalent test methods, where a minimum of 60% degradability under anaerobic conditions is achieved.

If no details of a substance's environmental properties are available it is considered environmentally hazardous with classification H410.

- | | | |
|-------------------------------------|--|--------------------|
| <input checked="" type="checkbox"/> | Declaration of surfactants that are exempted from the requirement (quantity, classification, degradability). | Appendix no. _____ |
| <input checked="" type="checkbox"/> | Summary of the content of substances and preparations classified as H410, H411 or H412 in the products in milligrams per litre water. | Appendix no. _____ |
| <input checked="" type="checkbox"/> | Calculations demonstrating the fulfilment of the requirement. | Appendix no. _____ |
| <input checked="" type="checkbox"/> | Material safety data sheet for each ingredient in accordance with current regulations in the country of application, such as Annex II of REACH (Council Regulation 1907/2006/EEC) and later additions and changes thereto with an account of the substance's environmental hazard (acute aquatic toxicity, degradability and/or bioaccumulating properties). | Appendix no. _____ |

R11 Critical Dilution Volume (CDV)

Yes No

The critical dilution volume of a single or multi-component system must not exceed the limit values (at the highest recommended dose) in table 3. Acute values (CDV_{acute}) or for chronic ($CDV_{chronic}$) values may be used.

Table 3 CDV at the highest recommended dosage

Parameter	Symbol (unit)	Dishwasher detergents and presoaks	Rinse aids
Critical Dilution Volume	CDV_{acute} (litre/litre water)	5000	8000
	$CDV_{chronic}$ (litre/litre water)	1900	3000

Documentation shall primarily refer to the DID list of 2007 or later. For substances not covered by this list, other documentation such as test reports and literature references may be submitted.

The DID list can be found on the Nordic Ecolabelling webpages (addresses page 2). The list can also be found on: http://ec.europa.eu/environment/ecolabel/ecolabelled_products/categories/did_list_en.htm

A worksheet for this calculation is available from Nordic Ecolabelling and can be downloaded from the Swedish and Danish Web sites:

<http://www.ecolabel.dk/producenter/kriterier/kriterieliste/kriteriedetaljer?maerke=Svanen&produktgruppe=80>

<http://www.svanen.se/en/Svanenmarka/Kriterier/Criteria/?productGroupID=76001>

The calculation formula for CDV can be found in Appendix 4. The parameter and calculation formula are found in Section B of the guidelines to the DID list.



Calculation of CDV for the single or multi-component system demonstrating compliance with the requirement. Specify whether the values are for CDV_{acute} or $CDV_{chronic}$. Documentation of each substance shall be referred to the DID-list of 2007 or later. For substances that are not present on the list part B of the DID-list shall be used.

Appendix no. _____

R12 Aerobic Non-Biodegradable Organics (aNBO) and Anaerobic Non-Biodegradable Organics (anNBO)

Yes No

The total quantity of organic substances that are aerobic non-biodegradable or anaerobic non-biodegradable in the single or multi-component system for professional use (at the highest recommended dosage) must not exceed the limit values specified in the following table.

Note that special requirements apply for surfactants (see R5).

Table 4 Limit values for aerobic and anaerobic biodegradability at the highest recommended dosage

Parameter	Symbol (unit)	Dishwasher detergents and presoaks	Rinse aids
Aerobic non-biodegradable organics	aNBO (g/l water)	0.4	0.04
Anaerobic non-biodegradable organics	anNBO (g/l water)	0.4*	0.04*

*Iminodisuccinate (IDS) and cumene sulphonate are exempted from the requirements on anaerobic biodegradability.



Calculation of aNBO and anNBO. The parameters and formulas required to document this requirement can be found in Appendix 4.

Appendix no. _____

A worksheet is available from Nordic Ecolabelling.

R13 Phosphorous

Yes No

The total quantity of phosphates and other phosphorous compounds must not exceed the limit values specified in table 5, calculated in grams of phosphorous per litre water. The highest recommended dosage shall be used for the phosphorous calculations.

Table 5 Limit values for elementary phosphorous

Parameter	Symbol (unit)	Dishwasher detergents and presoaks	Rinse aids
Quantity of phosphorous	P (g /litre water)	0.08	0.04

Calculation of the total quantity of elementary phosphorous in g/l dishwasher.

Appendix no. _____

R14 Phosphonates/phosphonic acids

Yes No

The content of phosphonates/phosphonic acids must not exceed the limits specified in Table 6, calculated in grams per litre of dishwasher. Dishwater refers to the in-use solution in the dishwasher. The highest recommended dosage shall be used for the calculations.

Table 6 Limit values for the content of phosphonates/phosphonic acids

Parameter	Symbol (unit)	Dishwasher detergents and presoaks	Rinse aids
Phosphonates/ phosphonic acids	Phosphonates/ phosphonic acids (g/litre water)	0.01	0.006

Calculation of the total quantity of phosphonates/phosphonic acids in g/l water.

Appendix no. _____

1.3 Dosage and packaging

Are the requirements met?

R15 Dosage

Yes No

The product must be easily dispensed using an automatic dosage system. If the product is dispensed manually, clear dosage instructions shall be provided.

Description of how dosage is normally performed. A dosing instruction for manually dosed products is required.

Appendix no. _____

R16 Plastic packaging and marking of packaging

Yes No

PVC and other halogenated plastics must not be used for packaging and labels. Plastic materials shall be marked in accordance with DIN 6120 part 2 or equivalent. Small parts (< 5g) are exempted from requirement about marking of packaging.

Product sheet or description demonstrating what types of plastic the packaging and label contain.

Appendix no. _____

Documentation of primary packaging demonstrating that marking complies with DIN 6120 or equivalent marking regulations.

Appendix no. _____

1.4	Mandatory information and declaration of ingredients	Are the requirements met?
R17	<p>Declaration of ingredients</p> <p>The declaration of ingredients shall comply with EU detergent regulation 648/2004/EC.</p> <p>☒ Material safety data sheet, technical product data sheet or copy of the label displaying the declaration of ingredients.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Appendix no. _____</p>
R18	<p>Mandatory information</p> <p>Instructions for use stating the recommended dosage (g/l water) for appropriate water hardness values must be specified on the packaging or a product data sheet.</p> <p>☒ Technical product data sheet or copy of the product label.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Appendix no. _____</p>
R19	<p>User instructions and environmental advice</p> <p>User instructions with the following or equivalent text must found on the product data sheet or product label:</p> <ul style="list-style-type: none"> • Attempt to wash full machines whenever possible • Avoid under or over dosing the detergent • Wash at the lowest temperature possible resulting in hygienic dishes • Information on disposal of empty packaging <p>A printable version of user instructions shall be available (for example on the web).</p> <p>Please contact the Nordic Ecolabelling body in the appropriate country for the texts applicable in the local language</p> <p>☒ Copy of the product label or product data sheet demonstrating compliance with the requirement.</p> <p>☒ Copy of the user instruction or link to the webpage where the information can be downloaded demonstrating compliance with the requirement.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Appendix no. _____</p> <p>Appendix no. _____</p>
1.5	Performance and user test	Are the requirements met?
	<p>The performance of the single or multi-component system must be satisfactory at the recommended dosage with soft water.</p>	
R20	<p>Performance and user test</p> <p>The performance and efficiency of the product must be satisfactory. The product must satisfy the requirements for the user test in accordance with Appendix 5.</p> <p>The results from tests from at least 8 test locations shall be submitted along with a report summarising these results and specifying the number and position of respondents.</p> <p>Dosing must agree with the producer's recommendations. The test period must last for at least four weeks. At least 80% of test locations must assess the product as offering satisfactory or excellent performance on all accounts (see Appendix 5). Respondents must also be satisfied or very satisfied with the customer visit agreement.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>

If products that are destined for use in instrumental maintenance within health care (as defined in the product group definition) are tested according to the standard ISO 15883 no user tests are required. In case a test report from a certified laboratory (see appendix 4, point 1) showing that the tests have been carried out according to the standard with satisfying results shall be included as documentation.

- All complete, signed and submitted test reports. Use Appendix 5 or equivalent.
- A report summarising the test results and specifying the number and position of respondents.

Appendix no. _____

Appendix no. _____

Are the requirements met?

1.6 Customer visits and visit reports

Yes No

R21 Customer visits and visit reports

Customer visits shall be made during the licence period in accordance with the supplier's procedures and agreement with each customer. The manufacturer/supplier must have a standard procedure for customer visits. In exceptional cases, a customer visit may be waived for occasional customers if the distance and method of delivery makes the visit impractical and difficult. The customer visit may be performed by a third party, such as a test institute or consultancy firm. The visit report shall be the supplier's standard visit report and contain the following items:

- Check that users have access to care instructions for the dishwasher.
- Measurement of water hardness or certificate from the water supplier (does not have to be measured every time, but water hardness needs to be documented at all customers).
- Dosage recommendation at the particular water hardness.
- Current dosage.
- Offer to provide an environmental advice poster* free of charge.

* At least the following environmental advice must be included:

- Attempt to wash full machines whenever
- Wash at the lowest temperature possible, resulting in hygienic dishes

Please contact the Nordic Ecolabelling body in the appropriate country for the texts applicable in the local language.

Nordic Ecolabelling shall on request, in connection to a random inspection, have access to signed and completed visit reports. All visit reports shall be saved during the whole time that the license is valid.

Appendix no. _____

- Copies of dated, signed and completed visit reports, containing the items listed above, from the at least eight customer visits that have been made to fulfil the performance requirements under Section 1.5.

Appendix no. _____

- Written report specifying the general procedures for customer visits and information on who conducts the visits, how often visits are made and which customers are visited. If some customers are not visited a description of them and the reasoning for not visiting them is required.

Appendix no. _____

- Routine for storing visit reports throughout the validity of the license.

2 Quality and regulatory requirements

Are the requirements met?

To ensure that Nordic Ecolabelling requirements are fulfilled, the following procedures must be implemented. If the company's environmental management system is certified to ISO 14 001, EMAS or equivalent, where the following procedures are applied, it is sufficient if the accredited auditor reports that the requirements are implemented.

- R22** **Laws and regulations** Yes No
- The licensee must guarantee adherence to safety regulations, working environment legislation, environmental legislation and conditions/concessions specific to the operations at all sites where the Nordic Swan Ecolabelled dishwasher detergent is manufactured.
- Signed application form. Appendix no. _____
- R23** **Licence administrators** Yes No
- The company shall appoint a contact person responsible for ensuring the fulfilment of Nordic Ecolabelling requirements.
- A chart of the company's organizational structure detailing the responsible contacts. Appendix no. _____
- R24** **Documentation** Yes No
- The licensee must be able to present a copy of the application and factual and calculation data supporting the documents submitted on application (including test reports, documents from suppliers and suchlike).
- Checked on site.
- R25** **Quality of the dishwasher detergent** Yes No
- The licensee must guarantee that the production quality of the Nordic Swan Ecolabelled dishwasher detergent (single or multi-components system), rinse aid or presoak is maintained throughout the validity period of the licence.
- Procedures for collating and, where necessary, dealing with claims and complaints regarding the quality of the Nordic Swan Ecolabelled rinse aid, presoak or dishwasher detergent for professional use. Appendix no. _____
- R26** **Changes and nonconformities** Yes No
- Written notice must be given to Nordic Ecolabelling of planned changes and unforeseen nonconformities that have a bearing on Nordic Ecolabelling requirements.
- Procedures detailing how changes and nonconformities are handled. Appendix no. _____
- R27** **Traceability** Yes No
- The licensee must have a traceability system for the production of the Nordic Swan Ecolabelled product.
- Description of/procedures for the fulfilment of the requirement. Appendix no. _____

3 Take back system

R28 Take-back system

The Nordic Ecolabelling's Criteria Group decided on the 9 October 2017 to remove this requirement.

R29 Marketing

The requirement is removed as decided by the Board of Directors 17 November 2014.

Regulations for the Nordic Ecolabelling of products

When the Nordic Swan Ecolabel is used on products the licence number shall be included.

More information on graphical guidelines, regulations and fees can be found at www.svanen.se/regulations/ or at www.nordic-ecolabel.org/regulations/

Sales in other Nordic countries

Registering a licence in another Nordic country allows the Nordic Swan Ecolabel to be used on a larger market. The following must be submitted to Nordic Ecolabelling:

- Application form for registration or original Nordic Swan Ecolabel application*.
- Copy of licence.
- Copy of the product label and material safety data sheet.
- Documentation demonstrating the fulfilment of national regulations concerning the phosphorus concentration in the product takes precedence in the country of registration.
- Product turnover in the country of registration.
- Any marketing material for the country of registration.
- Description of procedures for customer visits in the country of registration.
- The supplier/distributor in the country of registration if other than the licensee.

* If the applicant specifies in the original application that the product should be registered in a further Nordic country, this is sufficient. Nordic Ecolabelling then collates and forwards the documentation to the country or countries in question.

Registration is free of charge but an annual fee shall be paid in accordance with the national regulations.

Follow-up inspections

Nordic Ecolabelling may decide to check whether the rinse aid, presoak or dishwasher detergent for professional use fulfils Nordic Ecolabelling requirements during the licence period. This may involve a site visit, random sampling or similar test.

The licence may be revoked if it is evident that the rinse aid, presoak or dishwasher detergent for professional use does not meet the requirements.

Random samples may also be taken from trade sources and analysed by an independent laboratory. If the requirements are not met, Nordic Ecolabelling may charge the analysis costs to the licensee.

How long is a licence valid?

Nordic Ecolabelling adopted version 2 of the criteria for dishwasher detergents for professional use on 21 June 2010. The criteria are valid until 30 June 2014.

The Secretariat Managers Meeting decided on 16 February 2011 to change R13 Phosphorus and to make an adjustment in the chapter “Sales in other Nordic countries”. The new version is called 2.1.

The Secretariat Managers Meeting decided on 15 December 2011 to adjust the product group definition in order to clarify that also products destined for use in washer-disinfectors in instrument maintenance within health-care are covered by this criteria. Annexes 2 and 3 were adjusted and a couple of other minor corrections were made. The new version is called 2.2.

On 12 December 2012 the Nordic Ecolabelling Board adopted a change in R10. The new version is called 2.3.

The Secretariat Managers Meeting decided on 15 May 2013 to prolong the validity of the criteria document with 21 months. The new version is called 2.4 and it is valid until 31 March 2016.

On 22 October 2014 the Board of Directors adopted a change in R10 Environmentally hazardous substances, where enzyme/subtilisin classified H411 is exempted from the requirement. The new version is called 2.5.

The Nordic Ecolabelling's Criteria Group decided on 17 March 2015 to prolong the validity of the criteria document with two years. 17 November 2014 the Board of Directors decided to remove requirement R29 Marketing. The new version is called 2.6 and it is valid until 31 March 2018.

Nordic Ecolabelling's Criteria Group decided on 7 February 2017 to prolong the validity of the criteria with 24 months to the 31 March 2020. The new version is called 2.7.

The Nordic Ecolabelling's Criteria Group decided on the 9 October 2017 to remove requirement K28 on take back system.

The Nordic Ecolabelling's Criteria Group decided on 7 February 2018 to adjust the requirements K3, K4 and K10: references to expired legislation

have been deleted. The definition of ingoing substances was also adjusted. The new version is called 2.8.

Nordic Ecolabelling decided on 10 April 2019 to prolong the validity of the criteria with 24 months to the 31 March 2022. The new version is called 2.9.

New criteria

The criteria for phosphorous will be reviewed and the possibility to forbid phosphate or phosphonates will be evaluated.

The possibility to impose energy requirements will be investigated.

The possibility to omit the exemption for IDS regarding anaerobic biodegradability will be re-evaluated.

Evaluate if CDV values for only chronic CDV can be used.

Evaluate the possibility to give credit (by scoring points or similar) to low water flow in the final rinse to lower the consumption of water. Evaluate the possibility to include requirements on other factors concerning for example problems with the machine.

Appendix 1 Marketing of Nordic Swan Ecolabelled dishwasher detergents, rinse aids and presoaks

Appendix 1 Marketing is removed as decided by the Board of Directors 17 November 2014.

Appendix 2 Declaration from the manufacturer of dishwasher detergent for professional use

Use this appendix when applying for a Nordic Swan Ecolabel licence for dishwasher detergent for professional use.

Constituent substances include all substances in the product, including additives in the ingredients (such as preservatives and stabilisers) but do not include impurities from primary production. Impurity refers to residues from primary production which may be found in the product at concentrations below 0.01% (100 ppm) provided the impurity has not been actively added for a particular purpose.

Even known substances released (such as formaldehyde and arylamines) from constituent ingredients are considered as constituent ingredients.

Product name: _____

Type of product: _____

- | | | | | |
|---|-----|--------------------------|----|--------------------------|
| Does the product contain fragrances? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain reactive chlorine compounds? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain borates or perborates? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain APEO? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain APD? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain NTA? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| If yes, indicate amount in product: _____ | | | | |
| If yes, is NTA present as an impurity from MGDA or GLDA? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain EDTA? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain substances with potential for endocrine disruption of Category 1 or 2 in accordance with official EU lists? (See http://ec.europa.eu/environment/chemicals/endocrine/pdf/final_report_2007.pdf) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain nanoparticles (< 100 nm) based on metal, coal and/or fluoride compounds? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain substances that are evaluated by the EU as PBT or vPvB? (See http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain LAS? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain DADMAC? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| Does the product contain colouring agent(s)? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| If yes, specify the E-number, BCF or logKow value: _____ | | | | |

Are there any substances classified with the following risk phrases in the product?

Xn with R42 or Xi med R43 / Resp. sens 1 with H334 or Skin sens 1 with H317

Yes No

If yes, indicate concentration: _____

T with R45 and/or R49 (Carc 1 or Carc 2) or Xn med R40(Carc 3) /Carc 1A/1B/2 with H359, H350i and/or H351

Yes No

If yes, indicate concentration: _____

T with R46 (Mut 1 or Mut 2) or Xn with R68 (Mut 3) / Mut 1B/2 with H340 and/or H341

Yes No

If yes, indicate concentration: _____

T with R60, R61, R64 and/or R33 (Repr 1 or Repr 2) or Xn with R62, R63, R64 and/or R33 (Repr3) / Repr 1A/1B/2 with H360, H361 and/or H362

Yes No

If yes, indicate concentration: _____

If yes to any of the above question, please explain: _____

In case new information gives reason to change the declaration, a new declaration shall be sent to Nordic Ecolabelling.

Date:	Company name:
Signature (person responsible):	
Name in block capitals:	E-mail/Phone:

Appendix 3 Declaration from the ingredient manufacturer

Use this appendix when applying for a Nordic Swan Ecolabel licence for dishwasher detergent for professional use.

Constituent substances include all substances in the product, including additives in the ingredients (such as preservatives and stabilisers) but do not include impurities from primary production. Impurity refers to residues from primary production which may be found in the product at concentrations below 0.01% (100 ppm) provided the impurity has not been actively added for a particular purpose.

Even known substances released (such as formaldehyde and arylamines) from constituent ingredients are considered as constituent ingredients.

Ingredient name: _____

Function of ingredient: _____

Does the ingredient contain fragrances? Yes No

If yes, indicate concentration: _____

Does the ingredient contain reactive chlorine compounds? Yes No

If yes, indicate concentration: _____

Does the ingredient contain borates or perborates? Yes No

If yes, indicate concentration: _____

Does the ingredient contain APEO? Yes No

If yes, indicate concentration: _____

Does the ingredient contain APD? Yes No

If yes, indicate concentration: _____

Does the ingredient NTA? Yes No

If yes, indicate concentration: _____

Does the ingredient contain EDTA? Yes No

If yes, indicate concentration: _____

Does the ingredient contain substances with potential for endocrine disruption of Category 1 or 2 in accordance with official EU lists? (See http://ec.europa.eu/environment/chemicals/endocrine/pdf/final_report_2007.pdf) Yes No

If yes, indicate concentration: _____

Does the ingredient nanoparticles (< 100 nm) based on metal, coal and/or fluoride compounds? Yes No

If yes, indicate concentration: _____

Does the ingredient contain substances that are evaluated by the EU as PBT or vPvB? (See http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp) Yes No

If yes, indicate concentration: _____

Does the ingredient contain LAS? Yes No

If yes, indicate concentration: _____

Does the ingredient contain DADMAC? Yes No

If yes, indicate concentration: _____

Does the ingredient contain colouring agent(s)? Yes No

If yes, specify the E-number, BCF or logKow value: _____

Are there any substances classified with the following risk phrases in the ingredient?

Xn with R42 or Xi med R43 / Resp. sens 1 with H334 or Skin sens 1 with H317*

Yes No

If yes, indicate concentration: _____

T with R45 and/or R49 (Carc 1 or Carc 2) or Xn med R40(Carc 3) /Carc 1A/1B/2 with H359, H350i and/or H351

Yes No

If yes, indicate concentration: _____

T with R46 (Mut 1 or Mut 2) or Xn with R68 (Mut 3) / Mut 1B/2 with H340 and/or H341

Yes No

If yes, indicate concentration: _____

T with R60, R61, R64 and/or R33 (Repr 1 or Repr 2) or Xn with R62, R63, R64 and/or R33 (Repr3) / Repr 1A/1B/2 with H360, H361 and/or H362

Yes No

If yes, indicate concentration: _____

If yes to any of the above, please explain: _____

* Enzymes and preservatives are excepted from the requirements for the sensitizing classifications (see requirement R4). Any addition of enzyme and preservatives shall be reported in this declaration despite the exemption.

In case new information gives reason to change the declaration, a new declaration shall be sent to Nordic Ecolabelling.

Date:	Company name:
Signature (person responsible):	
Name in block capitals:	E-mail/Phone:

Appendix 4 Test methods and equations

1 Requirements on the analysis laboratory

The analysis laboratory used shall fulfil the general requirements of standard EN ISO 17025 or have official GLP status.

The applicant's own analysis laboratory/test procedure may be approved for analysis and testing if:

- the analyses and tests are monitored by the authorities, or if
- the manufacturer has a quality management system encompassing sampling and analysis and has been certified to ISO 9001 or ISO 9002, or
- the manufacturer can demonstrate that it is consistent with the initial analysis/testing performed as a parallel analysis/test by an accredited laboratory and the manufacturer's own laboratory and that the manufacturer takes samples in accordance with a predetermined sampling programme.

2 Ecotoxicological test methods

International test methods (OECD Guidelines for Testing of Chemicals, ISBN 92 64 1222144) or similar methods must be used. If equivalent methods are used, these must be evaluated by an independent body to ensure that the test results are equivalent. The test methods to be used are specified below.

3 Acute aquatic toxicity

Use test methods 201, 202 and 203 in the OECD Guidelines for the Testing of Chemicals (ISBN 92 64 1222144), or equivalent method to test aquatic acute toxicity.

4 Bioaccumulation

A substance is considered bioaccumulating if tested for bioaccumulation on fish according to method OECD 305 A E and its bioconcentration factor (BCF) is >500 . If no BCF value has been determined, a substance is considered bioaccumulating if its $\log K_{ow}$ value ≥ 4.0 according to method 107, 117 or 123 in the OECD Guidelines for the Testing of Chemicals (ISBN 92 64 1222144) or equivalent method, unless proven otherwise. If highest measured $BCF \leq 500$, the substance is not considered bioaccumulating even if $\log K_{ow} \geq 4.0$.

OECD's test method 107 cannot be used for surface-active substances, which are both fat and water soluble. Based on current knowledge, for such substances it must be shown to a high degree of certainty that the substance itself and its decomposition products do not pose a long-term hazard to aquatic organisms.

Computer models (such as BIOWIN) are permitted but if the results of an approximation are close to the set limit values or if Nordic Ecolabelling holds contradictory information, more reliable information is required.

5 Aerobic biodegradability

Test methods 301 (A to F) or 310 in the OECD Guidelines for the Testing of Chemicals (ISBN 92 64 1222144) should be used to test aerobic biodegradability.

Other scientifically accepted test methods may also be used. The test results of such equivalent methods must be evaluated by an independent body.

6 Anaerobic degradability

Use ISO 11734, ECOTOC no. 28 (June 1988) or equivalent test method to determine anaerobic biodegradability. For a substance to be considered to biodegrade anaerobically, a mineralisation of >60% within 60 days is required (equivalent to >60% ThOD/ThCO₂ or >70% DOC reduction).

Substances, other than surfactants, that are not found on the DID list may be exempted from the requirement on anaerobic biodegradability if the substance displays:

- Ready aerobic biodegradability and low adsorption (A < 25%), or
- Ready aerobic biodegradability and high desorption (D < 25%), or
- Ready aerobic biodegradability and no potential to bioaccumulate.

Test method 106 in the OECD Guidelines or ISO CD 18749 “Water quality – Adsorption of substances on activated sludge” is used to establish adsorption/desorption values.

7 DID list

The DID list is common to the European ecolabel and Nordic Ecolabelling. The list has been established in collaboration with stakeholders from industry and consumer and environmental organisations. The list contains information on the toxicity and biodegradability of substances that may be used in chemical/technical products. The DID list does not show which substances can be used in ecolabelled products.

The DID list cannot be used to document the toxicity of individual substances for classification purposes. For this purpose, MSDS, pertinent literature and information from the ingredient supplier shall be used.

The DID list is available from the ecolabelling body or via the national ecolabel website (see page 2 for addresses).

Valid to these criteria is the DID list dated January 2007 or later.

8 CDV calculation

Critical dilution volume, CDV_{acute} and CDV_{chronic}, is calculated as follows:

$$CDV_{acute} = \sum CDV(i) = 1000 \sum \text{dosage}(i) \times DF(i) / TF_{acute}(i), \text{ or}$$

$$CDV_{chronic} = \sum CDV(i) = 1000 \sum \text{dosage}(i) \times DF(i) / TF_{chronic}(i)$$

$\text{Dosage}(i)$ = Dosage of ingredient (i), expressed in g/l

$\text{DF}(i)$ = Degradation factor of ingredient (i), as specified on DID list.

$\text{TF}_{\text{acute}}(i)$ = Acute toxicity factor of ingredient (i), as specified on DID list.

$\text{TF}_{\text{chronic}}(i)$ = Chronic toxicity factor of ingredient (i), as specified on DID list.

DF and TF shall where possible be taken from the DID list dated January 2007 or later. The DID-list can be found on the Nordic Ecolabelling webpages (addresses page 2).

The list can also be found on:

http://ec.europa.eu/environment/ecolabel/ecolabelled_products/categories/pdf/did_list/didlist_part_b_en.pdf

If an ingredient is not found on the DID list, the factors shall be set as follows:

DF (see also Part B of the DID list):

- 0.05 for organic substances that are readily biodegradable according to Appendix 2.
- 0.15 for organic substances that are readily biodegradable according to Appendix 2 but for which the 10-day window is not met (excluding surfactants).
- 0.5 for organic substances that are inherently biodegradable according to Appendix 2.
- 1.0 for persistent organic substances.

TF (see also Part B of the DID list):

$\text{TF} = \text{toxicity}/\text{SF}$,

where the toxicity is the lowest found acute LC50/EC50/IC50 value, and SF is determined according to the following.

SFacute (see also Part B of the DID list):

- 1 000 Substances with acute toxicity data for each of three trophic levels.
- 5 000 Substances with acute toxicity data for two trophic levels.
- 10 000 Substances with acute toxicity data for only one trophic level.

SFchronic (see also Part B of the DID list):

- 10 Substance with three long-term NOEC from at least three species representing three trophic levels.
- 50 Substance with two long-term NOEC from at least two species representing two trophic levels.
- 100 Substances with one long-term NOEC (fish or crustaceans).

Appendix 5 User test

1. Responses must be gained from at least eight test locations representing a random selection of customers.
2. The procedure and dosing must be in accordance with the producer's recommendations.
3. The test period must last for at least four weeks.
4. Each test location shall evaluate the performance of the product by assessing the following areas:
 - The product's ability to remove soiling from the dishes.
 - The product's ability to dry the dishes.
 - The product's ability to prevent mineral deposits on the dishes and dishwasher.
 - The respondent's satisfaction with the agreement on customer visits.
5. The answers must be assessed on a scale with at least three levels. E.g. "poor performance", "satisfactory performance" and "excellent performance". As regards the test location's satisfaction with the agreement on customer visits, the categories should be "not satisfied", "satisfied" and "very satisfied".
6. All returned and signed reports shall be sent in. The results from at least 8 test locations must be submitted. At least 80% of test locations must assess the product as offering satisfactory performance or excellent performance on all accounts (see Item 4). Respondents must also be satisfied or very satisfied with the customer visit agreement.
7. All raw data from the test must be presented.
8. The test procedure must be presented in detail.
9. If products that are destined for use in instrumental maintenance within health care (as defined in the product group definition) are tested according to the standard ISO 15883 no user tests are required. In case a test report from a certified laboratory (see appendix 4, point 1) showing that the tests have been carried out according to the standard with satisfying results shall be included as documentation.

User test (dishwasher detergent, rinse aid and presoak for professional use)

Customer and test location (including address)

Name, function and producer of each product:

Recommended dosage _____ at _____ dH (water hardness)

Actual dosage _____ at _____ dH (water hardness)

Water temperature _____ °C

	Poor performance	Satisfactory performance	Excellent performance
Ability of the dishwasher detergent to remove soiling			
Ability of the rinse aid to dry the dishes			
The product's ability to prevent mineral deposits on the dishes			
The product's ability to prevent mineral deposits on the dishwasher			
How satisfied are you with the implementation of the customer visits?			

Comments: _____

Description of the test procedure:

What is the test location's primary activity (e.g. hotel, restaurant or school)?

What type of soiling was most difficult to remove and from what type of goods?

How often are dishes rewashed? _____

Other comments: _____

Contact details of test location

Contact person: _____

E-mail: _____

Phone: _____

Name Date, location
(Signature of contact person at the test location)

Appendix 6 Information on classifications (R3)

Dangerous for the environment

- H410: Very toxic to aquatic life with long lasting effects
- H411: Toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects
- H413: May cause long lasting harmful effects to aquatic life

Inhalation, oral, dermal

- H332: Harmful if inhaled
- H312: Harmful in contact with skin
- H302: Harmful if swallowed

Corrosive

- H314: Causes severe skin burns and eye damage

Sensitization

- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H317: May cause an allergic skin reaction

Cancer, teratogenic

- H350: May cause cancer
- H351: Suspected to cause cancer
- H340: May cause genetic damage
- H341: May cause genetic defects
- H360: May harm fertility or the unborn baby
- H361: Suspected to harm fertility or the unborn baby.
- H362: May harm babies being breastfed