Nordic Ecolabelling

Machines for Parks and Gardens

Revision proposal for version 5

Nordic Ecolabelling

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

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It may be quoted from provided that Nordic Ecolabelling is stated as the source.

This is a translation of the Swedish original. The original document takes precedence in the event of any discrepancies.

Nordic Ecolabelling Machines for parks and gardens

040/Revision proposal for version 5, 1 October 2012

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What is a Nordic Ecolabelled Machine for parks and gardens?

Nordic Ecolabelling of Machines for parks and gardens includes requirements on manufacturing, operation and end-of-life. The purpose is to identify the most environmentally friendly options in this field. Both personal and professional machines can be Nordic Ecolabelled.

A Nordic Ecolabelled Machine for parks and gardens is energy efficient and generates only minimal emissions of substances that are harmful to health and the environment. It should also contribute less to the greenhouse effect and the spread of hazardous substances than a non-Nordic Ecolabelled machine.

Why choose the Nordic Ecolabel?

- Manufacturers and retailers may use the Nordic Ecolabel trademark for marketing purposes. The Nordic Ecolabel is a very well-known and well-reputed trademark in the Nordic region.
- Environmental issues are complex. It can take a long time to gain an understanding of a specific area. Nordic Ecolabelling can be seen as an aid in this work.
- The Nordic Ecolabel not only covers environmental issues but also quality requirements, since the environment and quality often go hand in hand. This means that a Nordic Ecolabel licence can also be seen as a mark of quality.
- The Nordic Ecolabel is a cost-effective and simple way of communicating environmental work and commitment to customers and suppliers.
- A Nordic Ecolabelled machine for parks and gardens is energy efficient and generates only minimal emissions of substances that are harmful to health and the environment. This helps mitigate climate effects and lessen the spread of hazardous substances.

What can carry the Nordic Ecolabel?

Version 5 of Nordic Ecolabelling's criteria makes it possible to Nordic Ecolabel machines for parks and gardens, for private and professional use. The following types of manually, electricity or combustion engine operated machines can be labelled:

- Lawnmowers
- Lawn trimmers and lawn edge trimmers
- Brush cutters
- Chainsaws
- Leaf collectors and leaf blowers (for professional use only)
- Hedge trimmers
- Garden shredders
- Cultivators
- Riding lawn tractors/Movers
- Snow blowers

Only machines with combustion engines with a nominal engine output of ≤ 19 kW can be Nordic Ecolabelled. Engine operated machines must also be covered by the EU's Machinery Directive (2006/42/EC).

Combustion engine operated machines include air-cooled or liquid-cooled two-stroke or four-stroke engines. Petrol, diesel, ethanol or other renewable fuels may be used. The engine shall be new and adapted to the fuel type(s) for which it is intended.

Electrically powered machines may be corded or battery or solar cell operated. They may also be so called robots.

The product group Machines for parks and gardens does not include agricultural or forestry tractors, nor terrain vehicles, i.e. ATVs (All Terrain Vehicles).

How to apply?

A manufacturer or reseller can apply for a licence using the relevant application form. If a reseller applies for a licence, the manufacturer must also sign the application form.

Each requirement is marked with the letter R (requirement) and a number. All requirements must be fulfilled to be awarded 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 documentation

☺ On-site inspection

Application

Applications are made to the national ecolabelling organisation and the application is valid for 12 months. Applications may be processed by another ecolabelling organisation according to agreement between the organisations. The applicant is notified of this. Companies located outside the Nordic countries make applications to the national ecolabelling organisation of the primary market.

The application must consist of a completed application form together with all of the documentation required to demonstrate compliance with the requirements specified in the criteria document (this is specified for each requirement). The application form must specify in which Nordic countries the products in question are to be sold and the estimated turnover from the products in each country.

Further information and assistance may be available. Visit the relevant national website for information.

Sales in the Nordic region

Once granted, a licence is valid throughout the Nordic region. The licence document specifies in which Nordic countries the products are sold according to the information provided on the application. The products are published on Nordic Ecolabelling's website(s). The licensee undertakes to inform Nordic Ecolabelling of any changes as to where the product is sold. If the product is to be sold in other Nordic countries than those initially specified in the application, the licensee must provide written notification of this and submit any extra documentation required to Nordic Ecolabelling in the country that issued the license.

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 confirm compliance with the requirements 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 Ecolabelled machine.

Questions

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

What is required in order to be Nordic Ecolabelled?

All requirements marked 'R' must be fulfilled in order to be awarded a Nordic Ecolabel licence.

1 Manufacture

1.1 Product design

R 1. Fuel qualities

The combustion engine shall be constructed for use of one or several of the following fuel qualities, listed here in no particular order:

- lead-free petrol of the highest environmental class according to applicable European or national legislation;
- alkylate petrol;
- biofuel based fuel;
- diesel of the highest environmental class according to applicable European or national legislation.

✉ The User instructions should contain information about what fuel types can be used.

R 2. Spillage

The machine shall be constructed in such a way that refuelling and cleaning is possible without any risk of fuel spillages. There should be no oil spillage in connection with normal cleaning of the machine and the engine should be constructed in such a way that the oil can be changed without spillage.

✉ The User instructions should contain information about refuelling, cleaning and oil changes.

R 3. Evaporation losses

The fuel system should be constructed to ensure that evaporation losses (evaporative emissions) in terms of Reactive Organic Gases do not exceed the following limit values:

For fuel pipe/duct: 15 g ROG/m^2 per day.

For fuel tank: 1.5 g ROG/m^2 per day.

✉ Complete test report pursuant to test TP 901 showing that the limit value has been respected. Alternatively, a certificate showing that only pre-certified components have been used.

1.2 Materials

R 4. Marking of plastic parts

Plastic parts that weigh 25 grams or more must be marked in accordance with ISO 11469.

This requirement does not apply to rubber parts or cables. If the surface is smaller than 200 mm^2, the plastic part does not need to be marked.

✉ Manufacturer declaration. Appendix 1 can be used.

R 5. Heavy metals and flame retardants of very high concern

A Nordic Ecolabelled machine for parks and gardens may not contain heavy metals cadmium (Cd), lead (Pb), mercury (Hg), hexavalent chromium (Cr^{VI}) or their compounds. Nor may it contain polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

The maximum permissible heavy metal pollutant concentration is 0.01 weight per cent in homogenous materials.

This requirement does not apply to batteries. Please see R11-R13 for special requirements for batteries.

Note that unlike the RoHS Directive (2011/65/EU), Nordic Ecolabelling has only introduced maximum concentrations for pollutants. The maximum concentrations of the RoHS Directive apply even if the substance has been actively added. The requirement means that the addition of any of the above substances to Nordic Ecolabelled professional machines is completely forbidden.

Surface treatments such as chrome plating are considered homogenous materials.

Note that, unlike the RoHS Directive, the Nordic Ecolabel enforces these requirements also for machines for parks and gardens for professional use exclusively.

✉ Manufacturer declaration. Appendix 2 can be used.

R 6. Phthalates

The following phthalates must not be added to plastic or rubber materials:

- Di-2-ethylhexyl phthalate (DEHP)
- Di-n-butyl phthalate (DBP)
- Benzyl butyl phthalate (BBP)
- Dicyclohexyl phthalate (DCO)
- Diisobutyl phthalate (DIBP)
- Diisooctyl phthalate (DIOP)
- Diisononyl phthalate (DINP)
- Diisodecyl phthalate (DIDP)
- Dihexyl phthalate (DHP)
- Dicyclohexyl phthalate (DCHP)
- Diethyl phthalate (DEP)
- Diisohexyl phthalate (DIHP)

Cables, hoses/pipes/ducts, circuit boards and electronic components weighing less than 25 grams are completely exempt from the requirements.

✉ Duly completed declaration from the manufacturer/supplier of the plastic and rubber parts. Appendix 2 can be used.

R 7. Flame retardants in plastic and rubber parts

Hexabromocyclodecane (HBCDD), tetrabromobisphenol-A (TBBP-A) and tri (2-chloroethyl) phosphate (TCEP) may not be actively added to the product. The same applies to highly-chlorinated short-chain and medium-chain chloroparaffins.

Circuit boards and plastic and rubber parts in electronic components weighing less than 25 grams are completely exempt from the requirements.

✉ Duly completed declaration from the manufacturer/supplier of the plastic and rubber parts. Appendix 2 can be used.

R 8. Other halogenated organic flame retardants

Other halogenated organic flame retardants may not be added. Exceptions may be made in cases where these are required for electrical or fire safety reasons under the Low Voltage Directive 73/23/EEC or standard EN 603 35-1.

The exemption does not apply to the flame retardants regulated by R5 or R7 above.

Circuit boards and plastic and rubber parts in electronic components weighing less than 25 grams are completely exempt from the requirements.

✉ Duly completed declaration from the manufacturer/supplier of the plastic and rubber parts. Appendix 2 can be used.

R 9. Metal surface treatment

Metal may not be coated using lead, mercury, cadmium, chromium, nickel or their compounds.

Parts may be coated with chromium, nickel or compounds of these where this is necessary on the grounds of chemical or mechanical wear or another specific technical need. The chrome plating process shall be based on trivalent chromium. It must be possible to recycle or reuse parts surface treated with nickel and/or chromium.

Any chrome plating and nickel plating processes must be carried out with the help of process water/waste water treatment technology such as ion replacement, membrane technology or similar in order to ensure the greatest possible recovery of the metals. The process water shall be captured for recycling or destruction. The system must be closed.

Fastening components and similar small parts are excepted.

✉ Manufacturer declaration. Appendix 3 can be used. Specification of any need for metal plating and cleaning technology.

R 10. Surface treatment agent content

Surface treatment agents may not contain more than 5 per cent (w/w) organic solvents.

✉ Manufacturer declaration. Appendix 3 or 4 can be used.

1.3 Battery

R 11. Battery quality and performance

The individual cell in the operation battery must have undergone testing to EN 61951-2 for NiMH or to EN 61960 for lithium ion batteries. It must also have passed all tests applicable to the cell. The machine must be designed to switch off when the battery reaches a 'minimum power level' pre-established by the manufacturer.

✉ Test protocol pursuant to EN 61951-2 or EN 61960 and declaration from the machine manufacturer stating that the machine will switch off to prevent complete battery depletion. Appendix 5 can be used.

R 12. Safety

The operation battery must meet the safety requirements stipulated by standard IEC 62133.

✉ Declaration from the battery manufacturer stating that the requirement is fulfilled. Specification outlining how the safety requirements are fulfilled. Appendix 5 can be used.

R 13. Battery metal content

The metal content in the individual battery cell must not exceed the following levels:

Mercury	≤ 0.1 ppm
Cadmium	≤ 5.0 ppm
Lead	≤ 5.0 ppm
Arsenic	≤ 10.0 ppm

✉ Declaration stating that the requirement is fulfilled. Appendix 5 can be used.

1.4 Other

R 14. Packaging

Materials used in packaging must be recyclable or reusable. The licensee shall submit a description of the packaging stating how waste is handled in the Nordic countries where the Nordic Ecolabelled machine for parks and gardens will be sold.

Chlorine based plastics and biocide treated/impregnated timber must not be used in the packaging.

✉ A description of packaging and how it should be handled shall be included in the User instructions, see R22.

2 Operation of the Nordic Ecolabelled machine

R 15. Emission testing

Emission testing must be performed by a notified technical service that meets the requirements pursuant to EN-ISO/IEC 17 025 and the Emission Directive 1997/68/EC and that has an agreement with the national notifying body for type approval.

The engine shall be tested according to the requirements and specification stipulated in the EU directive relating to the emission of gaseous and particulate pollutants from internal combustion engines to be installed in off-road mobile machinery (97/68/EC). Appendix III and IV to the directive specify the testing process for engines with compression ignition and spark ignition respectively.

If the engine manufacturer performs tests, Nordic Ecolabelling may use the information on requirement fulfilment in applications from other companies wishing to Nordic Ecolabel their professional machines, unless otherwise agreed.

If a catalyst and/or particle trap is used, the manufacturer must prove, by way of a durability test that it may conduct itself in accordance with good engineering practice and good laboratory practice and using a test protocol, that these mechanisms for exhaust treatment can be expected to function correctly for the duration of the engine's service life.

✉ Test report from a notified technical service that meets the requirements pursuant to Appendix 6.

R 16. Limit values for petrol engine emissions

Emissions in connection with engine testing may not exceed the limit values stated below. This requirement apply both to the testing of new machines and to durability testing, see R 18.

Class/ category	Cylinder volume (cm^3)	Carbon monoxide (CO) (g/kWh)	Sum of hydrocarbons and nitrogen oxides
			HC + NOx (g/kWh)
Hand-held engines (e.g. chain saws, brush cutters, hedge trimmers and leaf blowers)			
SH1	<20	480	50
SH2	≥20 <50	480	40
SH3	≥50	480	15
Non hand-held engines (e.g. lawnmowers, both walk-behind and ride-on, landscaping tractors, etc.)			
SN1	<66	450	12/15*
SN2	≥66 <100	450	12
SN3	≥100 <225	450	10
SN4	≥225	450	4.3/6*

**numbers showing limit values for testing of new machines and post durability testing respectively.*

NOx emissions may not exceed 10 g/kWh for any engine class.

Engines used in products that are used solely in winter, e.g. snow blowers, do not need to meet the sum of hydrocarbons and nitrogen oxides requirement[1].

Two-stroke snow blower engines are only required to meet the norms for SH1, SH2 and SH3.

✉ Test report featuring results from complete emissions test.

R 17. Limit values for diesel engine emissions

Emissions must not exceed the limit values below at testing of new machines. The requirement applies regardless of whether the diesel engine uses fossil fuel or biofuel.

Maximum engine output, P (kW)	Carbon monoxide (CO) (g/kWh)	Sum of hydrocarbons and nitrogen oxides HC + NOx (g/kWh)	Particles (g/kWh)
P<8	8.0	7.5	0.8
8 ≤ P ≤ 19	6.6	7.5	0.8

✉ Test report featuring results from complete emissions test.

R 18. Durability requirements

Emissions shall be measured following durability testing. The limit values stated in R16 and R17 must be met.

The same engine that was short-term tested shall be durability tested according to the specification stipulated by the EU's directive relating to the emission of gaseous and particulate pollutants from internal combustion engines to be installed in off-road mobile machinery (97/68/EC). The durability period category selected should be the one that best reflects the expected service life of the machine(s) for which the engine is intended.

✉ Test report featuring results from complete emissions test. The licensee shall verify that the stated service life is correct in the same way as to the notifying body.

R 19. Lawnmower fuel consumption

The petrol consumption of a four-stroke lawnmower engine must not exceed 480 g/kWh. The engine that was short-term tested shall be durability tested according to the specification stipulated by the EU's directive relating to the emission of gaseous and particulate pollutants from combustion engines to be installed in non-road mobile machinery (97/68/EC).

✉ Data on petrol consumption from an authorised test laboratory. This information should also be available in the User instructions.

[1] This is in accordance with CARB.

R 20. Noise testing

The manufacturer of the professional machine can test noise itself if it is audited by a notified body appointed for the test method and product type in question pursuant to the Noise Directive 2000/14/EC and subsequent amendments. Other laboratories may be authorised if they are appointed a notified body for the test method and product type in question pursuant to the Noise Directive 2000/14/EC and subsequent amendments.

The EU's information system NANDO (New Approach Notified and Designated Organisations) contains a list of notified bodies:
http://ec.europa.eu/enterprise/newapproach/nando/

The weighted sound intensity level (LWA) shall be established. The sound intensity shall be established in accordance with general standard ISO 3744 as stipulated by the EU's Noise Directive 2000/14/EC.

Product specific standards stipulate the circumstances under which noise testing shall be performed. These standards are stated in the directive. If there are not such standards, the Noise Directive will stipulate the measurement conditions.

At least one randomly selected example of the relevant machine should be tested. At least two measurements are to be taken for the machine. The arithmetic average of the measurements shall represent the established emission level for the machine. A further two machines should be tested if the machine fails to meet the requirements.

The following limit values may not be exceeded.

Machine	Machine data	Sound intensity level dB(A)/picoW Private use/ professional use
Lawnmowers*	X ≤ 50 cm	90.0/94.0
	50 cm < X ≤ 70 cm	94.0/98.0
	70 cm < X ≤ 120 cm	98.0/98.0
	X > 120 cm	102.0/103.0
Lawn trimmers and lawn edge trimmers	combustion engine operated	104
	electrical engine operated	94
Brush cutters	<1.5 kW	107
	>1.5 kW	110
Chainsaws	<2.5 kW	105
	> 2.5	110
Leaf collectors and leaf blowers	for professional use	105
Hedge trimmers	combustion engine operated	103
	electrical engine operated	96
Garden shredders		92
Cultivators*		93
Riding lawn tractors/movers*		reported
Snow blowers		reported

Personal machines are defined as those where the engine's service life is given as ≤ 250 hours. Professional machines are defined as those where the engine's service life is given as >250 hours. The service life stated has been reported to the notified body for type approval pursuant to EU directive 97/68/EC.

**Covered by the limit values of the Noise Directive (2000/14/EC). Riding lawn tractors are covered to the extent that they fall under the directive's lawnmower definition. The limit value stated is the guaranteed limit value.*

✉ Complete test report.

R 21. Sound pressure level at the operator's ear

The weighted sound pressure level at the operator's ear shall be established under the same conditions as sound intensity. The result should be disclosed as customer information.

The method pursuant to standard EN 836 "Safety Standard for Powered Lawnmowers Noise and vibration" shall be used for lawnmowers and riding lawn tractors.

✉ Complete test report. This information should also be available in the User instructions.

3 Customer information

R 22. User instructions

Hardcopy User instructions containing the following information shall be included with the machine:

a) assembly, operation and maintenance instructions;
b) information about the maintenance required in order to ensure that the machine's emission values remain acceptable;
c) if maintenance is required pursuant to b) a service manual shall accompany the machines. This manual shall contain space for notes relating to maintenance performed;
d) what type of fuel the engine is intended for;
e) information recommending the use of biodegradable motor oil and environmentally adapted fuels such as alkylate petrol for petrol engines and diesel of the highest environmental class for diesel engines;
f) how to refill fuel in order to avoid fuel spillages;
g) how to clean the cutting unit without risking fuel leakages or oil spillages;
h) how to change the oil in order to avoid oil spillages;
i) the machine's fuel consumption, stated as a specific consumption in g/kWh and information as to whether this is considered average, low or high;
j) information stating that the fuel system has been designed so as to minimise evaporative emissions;
k) that the customer should hand the end-of-life product in to a waste handling station in order to facilitate recycling or other correct waste handling in accordance with national and local regulations;

l) that components that may be harmful to the environment, such as spilled oil (including Nordic Ecolabelled products), batteries etc., shall be handed over for treatment as hazardous waste;
m) what type of batteries are included in the machine;
n) petrol canister characteristics or how petrol should be refilled in order to avoid spillages;
o) the sound pressure level measured at the operator's ear;
p) a recommendation relating to the use of ear protectors whenever the machine is in operation;
q) the machine's highest guaranteed sound intensity level;
r) vibrations stated in accordance with the Machinery and Machine Safety Directive (2006/42/EC);
s) information on the length and dimension of the power supply cable for corded machines;
t) information on how to separate packaging for recycling.

✉ User instructions in the Nordic languages applicable to the markets in which the product is sold.

4 Quality and regulatory requirements

To ensure that the Nordic Ecolabel's requirements are fulfilled, the following procedures must be implemented.

If the manufacturer has a quality management system that is certified to ISO 9001 and the following procedures are applied, it is sufficient if the accredited auditor certifies compliance with the requirements.

R 23. Legislation and regulations

The licensee shall ensure compliance with all applicable local laws and provisions at all production facilities for the Nordic Ecolabelled product, e.g. with regard to safety, working environment, environmental legislation and site specific requirements/concessions.

Documentation is not required. However, Nordic Ecolabelling may revoke the licence if the requirement is not fulfilled.

R 24. Licence administrators

The company shall appoint an individual responsible for ensuring the fulfilment of Nordic Ecolabel requirements, and a contact person for communications with Nordic Ecolabelling.

✉ Organisational chart showing who is responsible for the above.

R 25. Documentation

The licensee must be able to present a copy of the application and factual and calculation data supporting the documents submitted with the application (including test reports, documents from suppliers and suchlike).

☺ On-site inspection.

R 26. Machine quality

The licensee must guarantee that the quality of the Nordic Ecolabelled machine for parks and gardens 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 Ecolabelled machines.

R 27. Planned changes

Written notice of planned changes in products and markets that affect the Nordic Ecolabelling requirements must be given to Nordic Ecolabelling.

✉ Procedures detailing how planned changes in products and markets are handled.

R 28. Unforeseen non-conformities

Unforeseen non-conformities that affect Nordic Ecolabel requirements must be reported to Nordic Ecolabelling in writing and logged.

✉ Procedures detailing how unforeseen non-conformities are handled.

R 29. Traceability

The licensee must have a traceability system for the production of the Nordic Ecolabelled machines.

✉ Description of/procedures for fulfilment of the requirement.

R 30. Recycling/Take-back system

Relevant national regulations, legislation and/or agreements within the sector regarding the recycling systems for products and packaging shall be met in the Nordic countries where the Nordic Ecolabelled machines are marketed.

✉ Declaration from the applicant regarding affiliation to existing recycling/take-back agreements.

R 31. Marketing

Marketing of the Nordic Ecolabelled machines for parks and gardens must comply with “Regulations for the Nordic Ecolabelling of Products” dated 22 June 2011 or later versions.

✉ Duly completed Appendix 7.

Marketing

The Nordic Ecolabel is a very well-known and well-reputed trademark in the Nordic region. The Nordic Ecolabelled machine for parks and gardens may be marketed using the Nordic Ecolabel so long as the associated licence is valid.

The label must be positioned so that there is no doubt as to what the label refers and so that it is clear that the machine is ecolabelled.

More information on marketing can be found in “Regulations for the Nordic Ecolabelling of Products” dated 22 June 2011 or later versions.

The design of the Nordic Ecolabel

The design of the Nordic Ecolabel is as follows:

licence number

Each licence has a unique six-digit licence number that must be displayed along with the label.

More information on the design of the label can be found in “Regulations for the Nordic Ecolabelling of Products” dated 22 June 2011 or later versions.

Follow-up inspections

Nordic Ecolabelling may check that the licensee continues to meet the Nordic Ecolabel requirements after a licence has been granted. This may involve a site visit, random sampling or a similar test.

The licence may be revoked if it is evident that the licensee does not meet the requirements.

How long is a licence valid?

Nordic Ecolabelling adopted the criteria for Machines for parks and gardens on DAY MONTH YEAR. The criteria are valid until DAY MONTH YEAR.

The Nordic Ecolabel licence will continue to apply as long as the criteria are fulfilled and until the criteria expire. The validity period of the criteria may be extended or adjusted, in which case the licence will automatically be extended and the licensee informed.

At least one year prior to the expiry of the present criteria, it will be announced which criteria will continue to apply after the expiry date. The licensee will then be offered the opportunity to renew the licence.

Future criteria

An assessment will be made to determine whether future criteria should include:

- required share of recycled materials or raw materials in the machine;
- requirement for machines to be constructed to enable reuse or material recycling of a certain material share;
- analysis of the mass/weight of various materials used in the product;
- limit values for substances that represent a health hazard on combustion of biofuels;
- possible tightening of noise limit values;
- possible tightening of limit values for emissions from diesel engine machines;
- analysis of the occurrence and risk associated with nano materials and perflourinated materials;
- the possibility of imposing material requirements for electrical machinery accessories, e.g. battery chargers.

Appendix 1 Marking of plastic parts

We hereby certify that parts weighing more than 25 grams are marked in accordance with ISO 11 469 or similar.

This requirement does not apply to rubber parts or cables. If the surface is smaller than 200 mm^2, the part does not need to be marked.

Machine manufacturer: _____

Machine type: _____

Subcontractor: _____

_____

_____

_____

Date	Company name (manufacturer)
Responsible	Phone
Name (BLOCK CAPITALS)	E-mail

Appendix 2 Hazardous substances declaration

We hereby certify that the machine does not contain materials containing the following:

- cadmium (Cd), lead (Pb), mercury (Hg), hexavalent chromium (Cr^{VI}) or their compounds;
- polybrominated biphenyls (PBB) and polybrominated diphenylethers (PBDE);
- hexabromocyclododecane (HBCDD), tetrabromobisphenol A (TBBP-A) and tris(2-carboxyethyl)phosphine (TCEP);
- highly-chlorinated short-chain chloroparaffins or highly-chlorinated medium-chain chloroparaffins;
- halogenated organic substances;
- other halogenated organic flame retardants except where these are required for electrical or fire safety reasons under the Low Voltage Directive 73/23/EEC or standard EN 603 35-1. Enclose requirement explanation.

Substances that are not actively added by the chemical manufacturer or its suppliers and that appear in quantities of less than 100 ppm are excluded from the requirement.

Date	Company name (manufacturer)
Responsible	Phone
Name (BLOCK CAPITALS)	E-mail

Appendix 3 Metal Surface treatment declaration

The following requirement is fulfilled: ☐Yes ☐No

- Metal plating agents do not contain pigments or additives based on lead, mercury, cadmium, chromium, nickel or their compounds.

Fastening components and similar small parts are excepted.

Parts may be coated with chromium, nickel or compounds of these where this is necessary on the grounds of chemical or mechanical wear or another specific technical need. In cases where parts are plated with chromium or nickel, please document the reason for this.

The chrome plating process shall be based on trivalent chromium. It must be possible to recycle or reuse parts surface treated with nickel and/or chromium. Any chrome plating and nickel plating processes must be carried out with the help of process water/waste water treatment technology such as ion replacement, membrane technology or similar in order to ensure the greatest possible recovery of the metals. The process water shall be captured for recycling or destruction. The system must be closed.

- The solvent does not contain more than 5 per cent (w/w) organic solvents. ☐Yes ☐No

Date	Company name (manufacturer)
Responsible	Phone
Name (BLOCK CAPITALS)	E-mail

Appendix 4 Subcontractor surface treatment declaration

The following parts (type) have been delivered for machine: _____

_____

_____

_____

_____

The following requirement is fulfilled: ☐Yes ☐No

- Metal plating agents used on parts do not contain pigments or additives based on lead, mercury, cadmium, chromium, nickel or their compounds.

Fastening components and similar small parts are excepted.

Parts may be coated with chromium, nickel or compounds of these where this is necessary on the grounds of chemical or mechanical wear or another specific technical need. In cases where parts are plated with chromium or nickel, please document the reason for this.

The chrome plating process shall be based on trivalent chromium. It must be possible to recycle or reuse parts surface treated with nickel and/or chromium. Any chrome plating and nickel plating processes must be carried out with the help of process water/waste water treatment technology such as ion replacement, membrane technology or similar in order to ensure the greatest possible recovery of the metals. The process water shall be captured for recycling or destruction. The system must be closed.

- The solvent does not contain more than 5 per cent (w/w) organic solvents. ☐Yes ☐ No

Date	Company name (Surface coating subcontractor)
Responsible	Phone
Name (BLOCK CAPITALS)	E-mail

Appendix 5 Battery safety, quality and metal content declaration

- We hereby certify that the machine has been constructed to switch off to prevent complete battery depletion.

- We hereby certify that the batteries meet the safety requirements pursuant to standard IEC 62133.

  Enclose specification outlining how the safety requirements are fulfilled:

  _____

  _____

  _____

  _____

- We hereby certify that the metal content of the individual battery cells does not exceed:

Mercury ≤ 0.1 ppm
Cadmium ≤ 5.0 ppm
Lead ≤ 5.0 ppm
Arsenic ≤ 10.0 ppm

Date	Company name (manufacturer)
Responsible	Phone
Name (BLOCK CAPITALS)	E-mail

Appendix 6 Analysis and test laboratories

Requirement for analysis laboratory

The analysis laboratory 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 authorities monitor the sampling and analysis process, or if
- the manufacturer has a quality management system encompassing sampling and analysis and has been certified to ISO 9001 or ISO 9002, or if
- the manufacturer can demonstrate agreement between a first-time test conducted at the manufacturer's own laboratory and testing carried out in parallel at an independent test institute based on an established testing plan.

Appendix 7 Marketing of Nordic Ecolabelled Machines for parks and gardens

We hereby certify that we are well acquainted with the regulations governing the use of the Nordic Ecolabel, as detailed in "Regulations for the Nordic Ecolabelling of Products" dated 22 June 2011 or later versions. We agree to follow these regulations when marketing the Nordic Ecolabelled machines for parks and gardens.

Further, we confirm that we are familiar with the content of the criteria regarding the Nordic Ecolabelling of machines for parks and gardens.

We undertake to advise those individuals within the company involved in marketing the Nordic Ecolabelled products of the criteria for the Nordic Ecolabelling Machines for parks and gardens and the "Regulations for the Nordic Ecolabelling of Products" dated 22 June 2011 or later versions.

Place and Date	Company name (manufacturer)
Signature, Contact person	Phone
Name (BLOCK CAPITALS)	
Signature, Marketing Manager	Phone
Name (BLOCK CAPITALS)	

In the event of a change in personnel, a new declaration must be submitted to Nordic Ecolabelling.