

Sustainable Public Procurement-fiche: basic

1) Subject matter

Environmentally friendly wash installations to clean the outside of cars and trucks

“For <.....> (name of the public authority), the care for the environment and social aspects is important. It is stated in her <strategic policies>, <mission>, <vision>, <procurement policy>, ...”

2) Exclusion criteria

Non compliance with environmental and social legislation, which has been the subject of a final judgment or a decision having equivalent effect, may be considered an offence concerning the professional conduct of the economic operator concerned or grave misconduct, permitting to exclude the party concerned from competing for the contract

Ref:

Art. 53 and 54 of Directive 2004/17/EC and Art. 45 of Directive 2004/18/EC

3) Technical capacity (not exclusive)

The EMAS certificate or equivalent certificates covering car wash services, can serve as possible means of proof for companies to demonstrate their technical capacity to perform the environmental management measures. Equivalent certificates are issued by bodies conforming to Community law or the relevant European or international standards concerning certification and based on relevant European or international environmental management standards. Also all other means of evidence provided by the company that can prove this technical capacity will be accepted.

4) Technical specifications

Water consumption

- Per washed car a maximum of 105 liter fresh water is used.
- Per washed truck or bus a maximum of 750 liter fresh water is used.



Cleaning products

Cleaning products are not classified according to EU directives on dangerous substances or preparations 67/548/EEC and 1999/45/EEC (with adaptations and amendments) as:

- dangerous to the environment: N with R50, R50/53 or R51/53 and R52, R53 or R52/53 without N
- very toxic: T+ with R26, R27, R28, R39
- toxic: T with R23, R24, R25, R39, R45, R46, R48, R49, R60, R61
- harmful: Xn with R20, R21, R22¹, R40, R48, R62, R63, R65¹, R68
- irritating: Xi with R41¹
- sensitising: Xn with R42 or Xi with R43
- corrosive: C with R34¹ and R35
- extremely flammable: F+ with R12
- highly flammable: F with R11, R15 and R17

Labeling with R10, Xi with R36/37/38 or Xn with R66 is allowed.

(see also annex)

This requirement applies also to super-concentrates diluted to concentrated form.

Waste

Waste must be sorted for reuse and recycling, at least for those types of waste:

- Paper and cardboard
- wood/pallets
- plastics
- metals
- dangerous waste

¹ applies to products not used in automatic washing installations



Evidence:

The compliance with all the criteria mentioned above can be proved with the following labels:



Milieukeur



Nordic Swan

in case that the tendering company can present one of those labels, any further proof is not necessary. Any other suitable evidence from a recognized body can also be used.

5) Awarding the contract:

| | Criterion | Weight |
|---|---|---------------|
| 1 | Price <i>Calculation (e.g.):</i> Lowest offered price/ stated price x 0,70 | e.g. 70% |
| 2 | Environmental criteria (The public authority formulates the points it wants to assign to the below mentioned criteria) <i>Calculation (e.g.):</i> Total scored points / maximum number of points x 0,20 | e.g. 20% |
| 3 | ... | e.g. 5 % |
| 4 | ... | e.g..... |

Environmental criteria

Waste water treatment

- Oil separators and systems for water treatment that are connected to the wash installation are not charged by surface water. However, the treatment system may be used for wastewater from areas used for purposes other than vehicle washing,



provided that this is approved by the supplier of the treatment system and the authorities. Toilets are not connected to the treatment system due to the risk of the spread of infections.

- Vehicle wash installations with recycling water system are designed to prevent anaerobic conditions in the water.
- Tanks and containers in the treatment system with re-circulated water can be refilled with clean water or, when it concerns a re-circulated water installation with water from the sludge tanker truck it should be guaranteed that the sludge tanker is not contaminated with heavy metals or bacteria.
- Re-circulated water may not be used in manual wash installations.
- Drains in the floors of chemical storage rooms are not connected to the treatment system for the wash installation. Drains constructed in a way to limit the effects of chemical spills (for instance sealed or with valve) are exempted.
- Waste from oil and sludge separators and other pollutants from the treatment system are handled by a facility approved by the authorities to process this type of waste.

Waste

Also other waste streams than paper and cardboard, wood/pallets, plastics, metals and dangerous waste are sorted for reuse and recycling.

Water consumption

- The less fresh water there is used per washed car or washed bus or truck the more awarding points the tenderer receives.
 - o For wash installations dimensioned for cars: If a maximum of 70 liter fresh water is used per washed car: 1 point; if a maximum of 65 liter fresh water is used per washed car: 2 points; if a maximum of 45 liters is used per washed car: 4 points
 - o For wash installations dimensioned for trucks and buses: If a maximum of 270 liter fresh water is used per washed bus or truck: 1 point; if a maximum of 200 liter fresh water is used per washed bus or truck: 2 points; if a maximum of 135 liters is used per washed bus or truck: 4 points.
- For a self serve car wash: the use of water of the spray nozzles is maximum 9 liter/min.



Energy use

- For tunnel-like conveyORIZED automatic car washes: a maximum of 25MJ is used per vehicle washed.²
- For roll over wash installations of 15MJ is used per vehicle washed.³
- If the wash installation has a system for automatic gate closure in the winter the tenderer receives more awarding points e.g. 2 points.
- If the wash installation is encompassed by an energy management system the tenderer receives more awarding points e.g. 2 points
- If the wash installation is equipped with automatic light control the tenderer receives extra awarding points e.g. 1 point.

Cleaning products

Cleaning products are not classified according to EU directives on dangerous substances or preparations 67/548/EEC and 1999/45/EEC (with adaptations and amendments) as explosive: E with R2 and R3.

Other

- In wash installations where the customer manually washes his car, the selection of car cleaning chemicals, dosage and water consumption is pre-programmed (automated).
- If the installation is intended for washing buses with on-board toilets, an emptying system shall be available to ensure that toilet waste is not discharged so that the recirculating water will not be contaminated.
- Per washed car a maximum of 25ml of car shampoo is used. For other products maximally 40ml is used per washed car.

6) Performance clauses:

The treatment system is functioning and operational while the wash installation is in use. Interruptions to the operations of the treatment system must be repaired before the wash installation operates again.

² A tunnel-like conveyORIZED automatic car wash: a computer driven car wash installation that uses conveyors to push or pull the vehicle through a series of fixed cleaning mechanisms

³ A roll over wash installation: a computer driven car wash in which the car stays on the same place and the wash installation moves over it.

References

[Information of the public authority that used these clauses in a procurement case]



Annex R-PHRASES:

(R-phrases are mentioned on product labels and in product safety datasheets. It can be a useful tool for verification-procedures.)

| | |
|---------------------------------|--|
| <u>R1:</u> | Explosive when dry. |
| <u>R2:</u> | Risk of explosion by shock, friction, fire or other sources of ignition. |
| <u>R3:</u> | Extreme risk of explosion by shock, friction, fire or other sources of ignition. |
| <u>R4:</u> | Forms very sensitive explosive metallic compounds. |
| <u>R5:</u> | Heating may cause an explosion. |
| <u>R6:</u> | Explosive with or without contact with air. |
| <u>R7:</u> | May cause fire. |
| <u>R8:</u> | Contact with combustible material may cause fire. |
| <u>R9:</u> | Explosive when mixed with combustible material. |
| <u>R10:</u> | Flammable |
| <u>R11:</u> | Highly flammable |
| <u>R12:</u> | Extremely flammable |
| <u>R13 (obsolet):</u> | <i>Extremely flammable liquid gas (This R-phrase is no longer designated by the version of the GefStoffV published on 26.10.93.)</i> |
| <u>R14:</u> | Reacts violently with water. |
| <u>R15:</u> | Contact with water liberates extremely flammable gases. |
| <i>Merck R15.1</i> | <i>Contact with acid liberates extremely flammable gases.</i> |
| <u>R16:</u> | Explosive when mixed with oxidizing substances. |
| <u>R17:</u> | Spontaneously flammable in air. |
| <u>R18:</u> | In use, may form flammable/explosive vapour-air mixture. |
| <u>R19:</u> | May form explosive peroxides. |
| <u>R20:</u> | Harmful by inhalation. |
| <u>R21:</u> | Harmful in contact with skin. |
| <u>R22:</u> | Harmful if swallowed. |
| <u>R23:</u> | Toxic by inhalation. |
| <i>Riedel-de Haen R23K:</i> | <i>Also toxic by inhalation.</i> |
| <u>R24:</u> | Toxic in contact with skin. |
| <i>Riedel-de Haen R24K:</i> | <i>Also toxic in contact with skin.</i> |
| <u>R25:</u> | Toxic if swallowed. |
| <i>Riedel-de Haen R25K:</i> | <i>Also toxic if swallowed.</i> |
| <u>R26:</u> | Very toxic by inhalation. |
| <i>Riedel-de Haen R26K:</i> | <i>Also very toxic by inhalation.</i> |
| <u>R27:</u> | Very toxic in contact with skin |
| <i>Riedel-de Haen R27A:</i> | <i>Very toxic in contact with eyes.</i> |
| <i>Riedel-de Haen R27K:</i> | <i>Also very toxic in contact with skin.</i> |
| <i>Riedel-de Haen</i> | <i>Also very toxic in contact with eyes.</i> |




| | |
|-----------------------|---|
| <u>R27AK:</u> | |
| <u>R28:</u> | Very toxic if swallowed. |
| <i>Riedel-de Haen</i> | <i>Also very toxic if swallowed.</i> |
| <u>R28K:</u> | |
| <u>R29:</u> | Contact with water liberates toxic gas. |
| <u>R30:</u> | Can become highly flammable in use. |
| <u>R31:</u> | Contact with acids liberates toxic gas. |
| <i>Merck R31.1</i> | <i>Contact with alkalies liberates toxic gas.</i> |
| <u>R32:</u> | Contact with acids liberates very toxic gas. |
| <u>R33:</u> | Danger of cumulative effects. |
| <u>R34:</u> | Causes burns. |
| <u>R35:</u> | Causes severe burns. |
| <u>R36:</u> | Irritating to eyes. |
| <i>Riedel-de Haen</i> | <i>Lacrimating</i> |
| <u>R36A:</u> | |
| <u>R37:</u> | Irritating to respiratory system. |
| <u>R38:</u> | Irritating to skin. |
| <u>R39:</u> | Danger of very serious irreversible effects. |
| <u>R40:</u> | Possible risk of cancer. <i>CAUTION: Until 2001 this R-phrase was used for possible mutagenic or teratogenic risks as well. These risks are now labelled with R68!</i> |
| <u>R41:</u> | Risk of serious damage to eyes. |
| <u>R42:</u> | May cause sensitization by inhalation. |
| <u>R43:</u> | May cause sensitization by skin contact. |
| <u>R44:</u> | Risk of explosion if heated under confinement. |
| <u>R45:</u> | May cause cancer. |
| <u>R46:</u> | May cause heritable genetic damage. |
| <u>R47(obsolete):</u> | <i>May cause deformities. (This R-phrase is no longer designated by the version of the GefStoffV published on 26.10.93.)</i> |
| <u>R48:</u> | Danger of serious damage to health by prolonged exposure. |
| <u>R49:</u> | May cause cancer by inhalation. |
| <u>R50:</u> | Very toxic to aquatic organisms. |
| <u>R51:</u> | Toxic to aquatic organisms. |
| <u>R52:</u> | Harmful to aquatic organisms. |
| <u>R53:</u> | May cause long-term adverse effects in the aquatic environment. |
| <u>R54:</u> | Toxic to flora. |
| <u>R55:</u> | Toxic to fauna. |
| <u>R56:</u> | Toxic to soil organisms. |
| <u>R57:</u> | Toxic to bees. |
| <u>R58:</u> | May cause long-term adverse effects in the environment. |
| <u>R59:</u> | Dangerous for the ozone layer. |
| <u>R60:</u> | May impair fertility. |
| <u>R61:</u> | May cause harm to the unborn child. |
| <u>R62:</u> | Possible risk of impaired fertility. |
| <u>R63:</u> | Possible risk of harm to the unborn child. |
| <u>R64:</u> | May cause harm to breastfed babies. |
| <u>R65:</u> | Harmful: may cause lung damage if swallowed. |
| <u>R66:</u> | Repeated exposure may cause skin dryness or cracking. |
| <u>R67:</u> | Vapours may cause drowsiness and dizziness. |
| <u>R68:</u> | Possible risks of irreversible effects. |

COMBINATIONS OF R-PHRASES:



- R14/15: Reacts violently with water, liberating extremely flammable gases.
- R15/29: Contact with water liberates toxic, extremely flammable gas.
- R20/21: Harmful by inhalation and in contact with skin.
- R21/22: Harmful in contact with skin and if swallowed.
- R20/22: Harmful by inhalation and if swallowed.
- R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
- R21/22: Harmful in contact with skin and if swallowed.
- R23/24: Toxic by inhalation and in contact with skin.
- R24/25: Toxic in contact with skin and if swallowed.
- R23/25: Toxic by inhalation and if swallowed.
- R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
- R24/25: Toxic in contact with skin and if swallowed.
- R26/27: Very toxic by inhalation and in contact with skin.
- R27/28: Very toxic in contact with skin and if swallowed.
- R26/28: Very toxic by inhalation and if swallowed.
- R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.
- R36/37: Irritating to eyes and respiratory system.
- R37/38: Irritating to respiratory system and skin.
- R36/38: Irritating to eyes and skin.
- R36/37/38: Irritating to eyes, respiratory system and skin.
- R39/23: Toxic: danger of very serious irreversible effects through inhalation.
- R39/24: Toxic: danger of very serious irreversible effects in contact with skin.
- R39/25: Toxic: danger of very serious irreversible effects if swallowed.
- R39/23/24: Toxic: danger of very serious irreversible effects through inhalation and in contact with skin.
- R39/23/25: Toxic: danger of very serious irreversible effects through inhalation and if swallowed.
- R39/24/25: Toxic: danger of very serious irreversible effects in contact with skin and if swallowed.
- R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R39/26: Very toxic: danger of very serious irreversible effects through inhalation.
- R39/27: Very toxic: danger of very serious irreversible effects in contact with skin.
- R39/28: Very toxic: danger of very serious irreversible effects if swallowed.
- R39/26/27: Very toxic: danger of very serious irreversible effects through inhalation and in contact with skin.
- R39/26/28: Very toxic: danger of very serious irreversible effects through inhalation and if swallowed.
- R39/27/28: Very toxic: danger of very serious irreversible effects in contact with skin and if swallowed.
- R39/26/27/28: Very toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R42/43: May cause sensitization by inhalation and skin contact.
- R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R48/21: Harmful: danger of serious damage to health by prolonged exposure in contact with skin.
- R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- R48/20/21: Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
- R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
- R48/21/22: Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
- R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
- R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R48/24: Toxic: danger of serious damage to health by prolonged exposure in contact with skin.
- R48/25: Toxic: danger of serious damage to health by prolonged exposure if swallowed.
- R48/23/24: Toxic: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
- R48/23/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
- R48/24/25: Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
- R48/23/24/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.



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- R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R68/20: Harmful: possible risk of irreversible effects through inhalation.
 - R68/21: Harmful: possible risk of irreversible effects in contact with skin.
 - R68/22: Harmful: possible risk of irreversible effects if swallowed.
 - R68/20/21: Harmful: possible risk of irreversible effects through inhalation and in contact with skin.
 - R68/20/22: Harmful: possible risk of irreversible effects through inhalation and if swallowed.
 - R68/21/22: Harmful: possible risk of irreversible effects in contact with skin and if swallowed.
 - R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

