SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier
- Trade name: MATIC-PRO DSG
- Article number: ARD020118
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  Sector of Use
  SU3    Industrial uses: Uses of substances as such or in preparations at industrial sites
  SU21   Consumer uses: Private households / general public / consumers
  SU22   Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Product category PC24    Lubricants, greases, release products
- Process category
  PROC8a      Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
  PROC8b      Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
  PROC9     Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
  PROC20    Heat and pressure transfer fluids in dispersive, professional use but closed systems

Environmental release category
- ERC4    Industrial use of processing aids in processes and products, not becoming part of articles
- ERC7    Industrial use of substances in closed systems
- ERC9a   Wide dispersive indoor use of substances in closed systems
- ERC9b   Wide dispersive outdoor use of substances in closed systems

Application of the substance / the mixture Transmission oil

- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  VROMAN NV
  Oudenaardsestraat 49
  8570 Vichte
  info@ardeca-lubricants.be
  0032 56 72 62 29
- Further information obtainable from: Product safety department - 0032 56 72 62 29.
- 1.4 Emergency telephone number: 0032 56 72 62 29 (9 AM to 4 PM, Monday to Friday)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008
    Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
  - Classification according to Directive 67/548/EEC or Directive 1999/45/EC
    R52/53:    Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  - Information concerning particular hazards for human and environment:
    The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
  - Classification system:
    The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements
  - Labelling according to Regulation (EC) No 1272/2008
    The product is classified and labelled according to the CLP regulation.
  - Hazard pictograms Void
  - Signal word Void
  - Hazard statements
    H412 Harmful to aquatic life with long lasting effects.
Trade name: MATIC-PRO DSG

- Precautionary statements
  P273 Avoid release to the environment.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information:
  EUH208 Contains Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., 2-ethylhexyl methacrylate, C14-18 alpha-olefin epoxide, reaction products with boric acid. May produce an allergic reaction.
- 2.3 Other hazards
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Reg.nr.</th>
<th>Dangerous components</th>
<th>Asp. Tox. 1, H304</th>
<th>Interchangeable low viscosity base oil (&lt;20,5 cSt @40 °C)</th>
<th>Xi R36/38</th>
<th>Skin Irrit. 2, H315; Eye Irrit. 2, H319</th>
<th>Aquatic Chronic 4, H413</th>
<th>Aquatic Chronic 3, H412</th>
<th>Aquatic Chronic 3, H411</th>
<th>Aquatic Chronic 4, H410</th>
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<tbody>
<tr>
<td>72623-87-1</td>
<td>276-738-4</td>
<td>01-2119474889-13</td>
<td>Lubricating oils (petroleum ), C20-50, hydrotreated neutral 25-50% oil-based</td>
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<td>2-5-10%</td>
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<td>272-225-4</td>
<td>01-211960832-33</td>
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<td>253-249-4</td>
<td>01-2119488911-28</td>
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<td>293-927-7</td>
<td>01-211976351-35</td>
<td>substituted thiadiazol</td>
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<tr>
<td>398141-87-2</td>
<td>800-172-4</td>
<td>01-2119695920-35</td>
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<td>61791-44-4</td>
<td>263-177-5</td>
<td>01-2119695920-35</td>
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<td>688-84-6</td>
<td>211-708-6</td>
<td>01-2119490166-35</td>
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<td>122-39-4</td>
<td>204-539-4</td>
<td>01-2119490166-35</td>
<td>diphenylamine</td>
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<td></td>
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</table>

- Additional information:
  * Contains one or more of the following CAS-numbers: 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-65-0, 64742-71-8, 68037-01-4, 72623-83-7, 72623-
Trade name: MATIC-PRO DSG

SECTION 4: First aid measures

4.1 Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
- Suitable extinguishing agents: CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.
- For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters
- Protective equipment:
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.

6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Remove from the water surface (e.g. skim or suck off).

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid the formation of oil haze.

7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:
    - Store in cool, dry conditions in well sealed receptacles.

(Contd. of page 2)
SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

Control parameters
- Ingredients with limit values that require monitoring at the workplace:
  Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

<table>
<thead>
<tr>
<th>122-39-4 diphenylamine</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

- Additional information: The lists valid during the making were used as basis.

- 8.2 Exposure controls
  - Personal protective equipment:
    - Respiratory protection: Not required.
    - Protection of hands:
      Wear gloves for the protection against chemicals according to EN 374.

- Eye protection: Goggles recommended during refilling
- Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Fluid
      - Colour: Clear
      - Odour: Characteristic

(Contd. on page 5)
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: MATIC-PRO DSG

- Change in condition
  - Boiling point/Boiling range: Undetermined.
  - Drip point: Pour point -48 °C (ASTM D97)

- Flash point:
  - Flammability (solid, gaseous): Not applicable.
  - Self-igniting: Product is not selfigniting.
  - Danger of explosion: Product does not present an explosion hazard.
  - Explosion limits:
    - Lower: Not determined.
    - Upper: Not determined.

- Density at 20 °C: 0.854 g/cm³

- Solubility in / Miscibility with water: Not miscible or difficult to mix.

- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:
  - Kinematic at 40 °C: 34 mm²/s
  - 100 °C 7.0 mm²/s (ASTM D445)

- Solvent content:
  - Organic solvents: 0.0 %
  - 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
  - Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.
- 10.3 Possibility of hazardous reactions Reacts with strong oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values relevant for classification:
    - 122-39-4 diphenylamine
      - Oral LD50 1120 mg/kg (rat)
      - Primary irritant effect:
        - on the skin: No irritant effect.
        - on the eye: No irritating effect.
        - Sensitisation: No sensitising effects known.
        - Sensitisation For respiratory and skin sensitisation: Not expected to be a sensitiser.
        - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
          This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:
  122-39-4 diphenylamine
  LC50 (48 h) 1100 mg/l (fish)

- 12.2 Persistence and degradability
  No further relevant information available.
- 12.3 Bioaccumulative potential
  No further relevant information available.
- 12.4 Mobility in soil
  No further relevant information available.
- Ecotoxicological effects:
  - Remark: Harmful to fish
  - Remark:
    This material is expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.
- Additional ecological information:
  - General notes:
    Harmful to aquatic organisms
    Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
    Danger to drinking water if even small quantities leak into the ground.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects
  No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- European waste catalogue
  13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, ADN, ADN, IMDG, IATA Void

- 14.2 UN proper shipping name
  - ADR, ADN, ADN, IMDG, IATA Void

- 14.3 Transport hazard class(es)
  - ADR, ADN, ADN, IMDG, IATA Void

- 14.4 Packing group
  - ADR, ADN, IMDG, IATA Void

- 14.5 Environmental hazards:
  - Marine pollutant: No
14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

UN "Model Regulation": -

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

National regulations:

- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

- H290 May be corrosive to metals.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- 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.

R22 Harmful if swallowed.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R33 Danger of cumulative effects.
R34 Causes burns.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R50 Very toxic to aquatic organisms.
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.
R53 May cause long-term adverse effects in the aquatic environment.

- Department issuing MSDS: Product safety department.
- Contact: Product safety department.
Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Met. Corr.: Corrosive to metals, Hazard Category 1
Acute Tox. 3: Acute toxicity, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4
Sources EC/453-2010