



# NORTHERN SOLUTIONS

hydroacoustic navigation systems

## MANUFACTURER PRODUCT DECLARATION

Issued under the provisions of IMO Resolution A.981(24)

### "IMO GUIDELINES ON SHIP RECYCLING"

Concerning identification of materials of potential hazard to human health and the environment.

#### Manufacturer information

|               |                       |                 |                        |
|---------------|-----------------------|-----------------|------------------------|
| Company name  | Northern Solutions AS | Contact person: | Leonid Boldyrev        |
| Telephone no: | +47 90 16 72 84       | Email address:  | mail@nor-solutions.com |
| Address:      | Steinalderveien 2E    | 1407, Vinterbro | Norway                 |

#### Product information

|                     |                                    |
|---------------------|------------------------------------|
| Product name        | EMES60                             |
| Product information | Dual navigational system, HMI Unit |
| Part number(s)      | DISP-60_01L; DISP-60_01E           |
| Weight              | 1.2Kg                              |

**THIS IS TO DECLARE THAT** based on IMO Resolution A.981(24), this product contains materials as shown in the table below:

| Substance category name  | Threshold level | Above threshold Level YES/NO | If yes, approx. quantity | Location/ Production part |
|--|-----------------|------------------------------|--------------------------|---------------------------|
| Asbestos   | 0ppm            | No                           |                          |                           |
| Azocolourants and Azodyes  | 30ppm           | No                           |                          |                           |
| Cadmium and Cadmium Compounds  | 100ppm          | No                           |                          |                           |
| Hexavalent Chromium Compounds  | 1.000ppm        | No                           |                          |                           |
| Lead and Lead Compounds  | 1.000ppm        | Yes                          | <0.005 Kg                | Electronic components     |
| Mercury and Mercury Compounds  | 1.000ppm        | No                           |                          |                           |
| Ozone Depleting Substance  | 0ppm            | No                           |                          |                           |
| Polybrominated Biphenyl (PBBs)   | 1.000ppm        | No                           |                          |                           |
| Polybrominated Dethenyl ethers (PBDEs)                                     | 1.000ppm        | No                           |                          |                           |
| Polychlorinated Biphenyls (PCBs)   | 0ppm            | No                           |                          |                           |
| Polychloronaphthalanes (Cl $\Rightarrow$ 3)                                | 0ppm            | No                           |                          |                           |
| Radioactive substances   | 0ppm            | No                           |                          |                           |
| Shortchain Chlorinated Paraffins   | 1%              | No                           |                          |                           |
| Tributyl Tins, Triphenyl Tins  | 2.500ppm        | No                           |                          |                           |
| Tributyl Tin Oxide (TBTO)  | 2.500ppm        | No                           |                          |                           |
| Other products specified in IMO Res. A962 (23) Appendix I (Green Passport) | No/Yes          | No                           |                          |                           |

I hereby declare that this document is based on statements of our suppliers and on product data at the time of signature, and that the changes in design and corresponding material specification requires issuance of a new Declaration in order to be valid.

Place Vinterbro

Date 13.04.2016

Signature Leonid Boldyrev

Steinalderveien 2E, 1407, Vinterbro, Norway

Org. nr.: NO 912 403 653; Phone: +47 90 16 72 84





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| Address:      | Steinalderveien 2E    | 1407, Vinterbro | Norway                 |

#### Product information

|                     |   |
|---------------------|---|
| Product name        | EMES60  |
| Product information | Dual navigational system, Sensor Interface Unit |
| Part number(s)      | INT-60_D_01                                     |
| Weight              | 3.5Kg   |

**THIS IS TO DECLARE THAT** based on IMO Resolution A.981(24), this product contains materials as shown in the table below:

| Substance category name  | Threshold level | Above threshold Level YES/NO | If yes, approx. quantity | Location/ Production part |
|--|-----------------|------------------------------|--------------------------|---------------------------|
| Asbestos   | 0ppm            | No                           |                          |                           |
| Azocolourants and Azodyes  | 30ppm           | No                           |                          |                           |
| Cadmium and Cadmium Compounds  | 100ppm          | No                           |                          |                           |
| Hexavalent Chromium Compounds  | 1.000ppm        | No                           |                          |                           |
| Lead and Lead Compounds  | 1.000ppm        | Yes                          | <0.005 Kg                | Electronic components     |
| Mercury and Mercury Compounds  | 1.000ppm        | No                           |                          |                           |
| Ozone Depleting Substance  | 0ppm            | No                           |                          |                           |
| Polybrominated Biphenyl (PBBs)   | 1.000ppm        | No                           |                          |                           |
| Polybrominated Dethenyl ethers (PBDEs)                                     | 1.000ppm        | No                           |                          |                           |
| Polychlorinated Biphenyls (PCBs)   | 0ppm            | No                           |                          |                           |
| Polychloronaphthalenes (Cl $\Rightarrow$ 3)                                | 0ppm            | No                           |                          |                           |
| Radioactive substances   | 0ppm            | No                           |                          |                           |
| Shortchain Chlorinated Paraffins   | 1%              | No                           |                          |                           |
| Tributyl Tins, Triphenyl Tins  | 2.500ppm        | No                           |                          |                           |
| Tributyl Tin Oxide (TBTO)  | 2.500ppm        | No                           |                          |                           |
| Other products specified in IMO Res. A962 (23) Appendix I (Green Passport) | No/Yes          | No                           |                          |                           |

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| Address:      | Steinalderveien 2E    | 1407, Vinterbro | Norway                 |

#### Product information

|                     |  |
|---------------------|--|
| Product name        | EMES60   |
| Product information | Dual navigational system, Sensor Power Supply Unit |
| Part number(s)      | SPOW60_D_01  |
| Weight              | 3.5Kg  |

THIS IS TO DECLARE THAT based on IMO Resolution A.981(24), this product contains materials as shown in the table below:

| Substance category name  | Threshold level | Above threshold Level YES/NO | If yes, approx. quantity | Location/ Production part |
|--|-----------------|------------------------------|--------------------------|---------------------------|
| Asbestos   | 0ppm            | No                           |                          |                           |
| Azocolourants and Azodyes  | 30ppm           | No                           |                          |                           |
| Cadmium and Cadmium Compounds  | 100ppm          | No                           |                          |                           |
| Hexavalent Chromium Compounds  | 1.000ppm        | No                           |                          |                           |
| Lead and Lead Compounds  | 1.000ppm        | Yes                          | <0.005 Kg                | Electronic components     |
| Mercury and Mercury Compounds  | 1.000ppm        | No                           |                          |                           |
| Ozone Depleting Substance  | 0ppm            | No                           |                          |                           |
| Polybrominated Biphenyl (PBBs)   | 1.000ppm        | No                           |                          |                           |
| Polybrominated Dethenyl ethers (PBDEs)                                     | 1.000ppm        | No                           |                          |                           |
| Polychlorinated Biphenyls (PCBs)   | 0ppm            | No                           |                          |                           |
| Polychloronaphthalanes (Cl $\Rightarrow$ 3)                                | 0ppm            | No                           |                          |                           |
| Radioactive substances   | 0ppm            | No                           |                          |                           |
| Shortchain Chlorinated Paraffins   | 1%              | No                           |                          |                           |
| Tributyl Tins, Triphenyl Tins  | 2.500ppm        | No                           |                          |                           |
| Tributyl Tin Oxide (TBTO)  | 2.500ppm        | No                           |                          |                           |
| Other products specified in IMO Res. A962 (23) Appendix I (Green Passport) | No/Yes          | No                           |                          |                           |

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#### Product information

|                     |  |
|---------------------|--|
| Product name        | EMES60   |
| Product information | Dual navigational system, Sensor Unit With Cable |
| Part number(s)      | EMES60_SENS_01                                   |
| Weight              | 7Kg  |

THIS IS TO DECLARE THAT based on IMO Resolution A.981(24), this product contains materials as shown in the table below:

| Substance category name  | Threshold level | Above threshold Level YES/NO | If yes, approx. quantity | Location/ Production part |
|--|-----------------|------------------------------|--------------------------|---------------------------|
| Asbestos   | 0ppm            | No                           |                          |                           |
| Azocolourants and Azodyes  | 30ppm           | No                           |                          |                           |
| Cadmium and Cadmium Compounds  | 100ppm          | No                           |                          |                           |
| Hexavalent Chromium Compounds  | 1.000ppm        | No                           |                          |                           |
| Lead and Lead Compounds  | 1.000ppm        | Yes                          | <0.003 Kg                | Electronic components     |
| Mercury and Mercury Compounds  | 1.000ppm        | No                           |                          |                           |
| Ozone Depleting Substance  | 0ppm            | No                           |                          |                           |
| Polybrominated Biphenyl (PBBs)   | 1.000ppm        | No                           |                          |                           |
| Polybrominated Dethenyl ethers (PBDEs)                                     | 1.000ppm        | No                           |                          |                           |
| Polychlorinated Biphenyls (PCBs)   | 0ppm            | No                           |                          |                           |
| Polychloronaphthalanes (Cl $\Rightarrow$ 3)                                | 0ppm            | No                           |                          |                           |
| Radioactive substances   | 0ppm            | No                           |                          |                           |
| Shortchain Chlorinated Paraffins   | 1%              | No                           |                          |                           |
| Tributyl Tins, Triphenyl Tins  | 2.500ppm        | No                           |                          |                           |
| Tributyl Tin Oxide (TBTO)  | 2.500ppm        | No                           |                          |                           |
| Other products specified in IMO Res. A962 (23) Appendix I (Green Passport) | No/Yes          | No                           |                          |                           |

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#### Product information

|                     |  |
|---------------------|--|
| Product name        | EMES60   |
| Product information | Dual navigational system, Single Bottom Valve for EMES60 |
| Part number(s)      | EMES60-SVALVE  |
| Weight              | 25Kg   |

**THIS IS TO DECLARE THAT** based on IMO Resolution A.981(24), this product contains materials as shown in the table below:

| Substance category name  | Threshold level | Above threshold Level YES/NO | If yes, approx. quantity | Location/ Production part |
|--|-----------------|------------------------------|--------------------------|---------------------------|
| Asbestos   | 0ppm            | No                           |                          |                           |
| Azocolourants and Azodyes  | 30ppm           | No                           |                          |                           |
| Cadmium and Cadmium Compounds  | 100ppm          | No                           |                          |                           |
| Hexavalent Chromium Compounds  | 1.000ppm        | No                           |                          |                           |
| Lead and Lead Compounds  | 1.000ppm        | No                           |                          |                           |
| Mercury and Mercury Compounds  | 1.000ppm        | No                           |                          |                           |
| Ozone Depleting Substance  | 0ppm            | No                           |                          |                           |
| Polybrominated Biphenyl (PBBs)   | 1.000ppm        | No                           |                          |                           |
| Polybrominated Dethenyl ethers (PBDEs)                                     | 1.000ppm        | No                           |                          |                           |
| Polychlorinated Biphenyls (PCBs)   | 0ppm            | No                           |                          |                           |
| Polychloronaphthalanes (Cl $\Rightarrow$ 3)                                | 0ppm            | No                           |                          |                           |
| Radioactive substances   | 0ppm            | No                           |                          |                           |
| Shortchain Chlorinated Paraffins   | 1%              | No                           |                          |                           |
| Tributyl Tins, Triphenyl Tins  | 2.500ppm        | No                           |                          |                           |
| Tributyl Tin Oxide (TBTO)  | 2.500ppm        | No                           |                          |                           |
| Other products specified in IMO Res. A962 (23) Appendix I (Green Passport) | No/Yes          | No                           |                          |                           |

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