

RESOLUTION MEPC.344(78) (adopted on 10 June 2022)  
AMENDMENTS TO THE ANNEX OF THE INTERNATIONAL CONVENTION FOR THE  
PREVENTION OF POLLUTION FROM SHIPS, 1973, AS MODIFIED BY THE PROTOCOL OF 1978 RELATING THERETO

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**AMENDMENTS TO THE ANNEX OF THE INTERNATIONAL CONVENTION FOR THE  
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**Amendments to MARPOL Annex II**

**(Abbreviated legend to the revised  
GESAMP Hazard Evaluation Procedure)**

THE MARINE ENVIRONMENT PROTECTION COMMITTEE,

RECALLING Article 38(a) of the Convention on the International Maritime Organization concerning the functions of the Marine Environment Protection Committee conferred upon it by international conventions for the prevention and control of marine pollution from ships,

RECALLING ALSO article 16 of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (MARPOL), which specifies the amendment procedure and confers upon the appropriate body of the Organization the function of considering amendments thereto for adoption by the Parties,

HAVING CONSIDERED, at its seventy-eighth session, proposed amendments to appendix I of MARPOL Annex II concerning the abbreviated legend to the revised GESAMP Hazard Evaluation Procedure,

1 ADOPTS, in accordance with article 16(2)(d) of MARPOL, amendments to appendix I of MARPOL Annex II, the text of which is set out in the annex to the present resolution;

2 DETERMINES, in accordance with article 16(2)(f)(iii) of MARPOL, that the amendments shall be deemed to have been accepted on 1 May 2023 unless prior to that date, not less than one-third of the Parties or Parties the combined merchant fleets of which constitute not less than 50 per cent of the gross tonnage of the world's merchant fleet have communicated to the Organization their objection to the amendments;

3 INVITES the Parties to note that, in accordance with article 16(2)(g)(ii) of MARPOL, the said amendments shall enter into force on 1 November 2023 upon their acceptance in accordance with paragraph 2 above;

4 REQUESTS the Secretary-General, for the purposes of article 16(2)(e) of MARPOL, to transmit certified copies of the present resolution and the text of the amendments contained in the annex to all Parties to MARPOL;

5 ALSO REQUESTS the Secretary-General to transmit copies of the present resolution and its annex to Members of the Organization which are not Parties to MARPOL.

**ANNEX**

**AMENDMENTS TO MARPOL ANNEX II**

**(Abbreviated legend to the revised GESAMP Hazard Evaluation Procedure)**

**Appendix I**

**Guidelines for the categorization of noxious liquid substances**

The three tables under the title "Abbreviated legend to the revised GESAMP Hazard Evaluation Procedure" are replaced by the following four tables:

"

| Numerical rating | A<br>Bioaccumulation and Biodegradation |                      | B<br>Aquatic Toxicity                                 |  |
|------------------|---|----------------------|---|--|
|                  | A1<br>Bioaccumulation                   | A2<br>Biodegradation | B1<br>Acute toxicity<br>LC/EC/IC <sub>50</sub> (mg/L) | B2<br>Chronic toxicity<br>EC <sub>10</sub> or<br>NOEC (mg/L) |
|                  | A1a: log P <sub>ow</sub>                | A1b: BCF             |   |  |
| 0                | log <1,<br>log > ca.7<br>MW > 1000      | no measurable<br>BCF | R:<br>readily<br>biodegradable                        | AT >1000<br><br>CT >1  |
| 1                | 1 ≤ log <2                              | 1 ≤ BCF <10          | NR:<br>not readily<br>biodegradable                   | 100 < AT ≤ 1000<br>0.1 < CT ≤ 1                              |
| 2                | 2 ≤ log <3                              | 10 ≤ BCF <100        |   | 10 < AT ≤ 100<br>0.01 < CT ≤ 0.1                             |
| 3                | 3 ≤ log <4                              | 100 ≤ BCF <500       |   | 1 < AT ≤ 10<br>0.001 < CT ≤ 0.01                             |
| 4                | 4 ≤ log <5                              | 500 ≤ BCF <4000      |   | 0.1 < AT ≤ 1<br>CT ≤ 0.001                                   |
| 5                | 5 ≤ log < ca.7                          | BCF ≥ 4000           |   | 0.01 < AT ≤ 0.1  |
| 6                |   |                      |   | AT ≤ 0.01  |

| Numerical rating | C<br>Acute Mammalian Toxicity |                               |   |   |   |
|------------------|-------------------------------|-------------------------------|---|---|---|
|                  | C1<br>Oral toxicity           | C2<br>Dermal toxicity         | C3<br>Inhalation toxicity                   |   |   |
|                  | LD <sub>50</sub> /ATE (mg/kg) | LD <sub>50</sub> /ATE (mg/kg) | C3a   |   | C3b   |
|                  |                               |                               | vapour/mist<br>LC <sub>50</sub> /ATE (mg/L) | mist only<br>LC <sub>50</sub> /ATE (mg/L) | vapour only<br>LC <sub>50</sub> /ATE (mg/L) |
| 0                | ATE >2000                     | ATE >2000                     | ATE >20                                     | ATE >5                                    | ATE >20                                     |
| 1                | 300 < ATE ≤ 2000              | 1000 < ATE ≤ 2000             | 10 < ATE ≤ 20                               | 1 < ATE ≤ 5                               | 10 < ATE ≤ 20                               |
| 2                | 50 < ATE ≤ 300                | 200 < ATE ≤ 1000              | 2 < ATE ≤ 10                                | 0.5 < ATE ≤ 1                             | 2 < ATE ≤ 10                                |
| 3                | 5 < ATE ≤ 50                  | 50 < ATE ≤ 200                | 0.5 < ATE ≤ 2                               | 0.05 < ATE ≤ 0.5                          | 0.5 < ATE ≤ 2                               |
| 4                | ATE ≤ 5                       | ATE ≤ 50                      | ATE ≤ 0.5                                   | ATE ≤ 0.05                                | ATE ≤ 0.5                                   |

| Numerical rating | D<br>Irritation, Corrosion and Long-term Health Effects |                                    |   |
|------------------|---|------------------------------------|---|
|                  | D1<br>Skin irritation and corrosion                     | D2<br>Eye irritation and corrosion | D3<br>Long-term health effects  |
| 0                | not irritating  | not irritating                     | <b>C</b> – Carcinogenic<br><b>M</b> – Mutagenic<br><b>R</b> – Reprotoxic<br><b>Ss</b> – Sensitizing to skin<br><b>Sr</b> – Sensitizing to respiratory system<br><b>A</b> – Aspiration hazard<br><b>T</b> – Target Organ Toxicity<br><b>N</b> – Neurotoxic<br><b>I</b> – Immunotoxic |
| 1                | mildly irritating                                       | mildly irritating                  |   |
| 2                | irritating  | irritating                         |   |
| 3                | severely irritating or corrosive                        | severely irritating                |   |
|                  | 3A Corr. (≤4 h)<br>3B Corr. (≤1 h)<br>3C Corr. (≤3 min) |                                    |   |

| <b>E</b>                                       |                                     |  |   |
|--|-------------------------------------|--|---|
| <b>Interference with Other Uses of the Sea</b> |                                     |  |   |
| Numerical Rating                               | E1<br>Flammability flashpoint (°C)  | E2<br>Physical effects on wildlife and benthic habitats  | E3<br>Interference with coastal amenities                       |
| 0  | -<br>(not flammable, does not burn) | <b>Fp</b> - Persistent floater<br><b>F</b> - Floater<br><b>S</b> - Sinker<br><b>G</b> - Gas<br><b>E</b> - Evaporator<br><b>D</b> - Dissolver<br>and combinations thereof | no interference<br><b>no warning</b>                            |
| 1  | Fp >93                              |  | slightly objectionable<br><b>warning, no closure of amenity</b> |
| 2  | 60 < Fp ≤ 93                        |  | moderately objectionable<br><b>possible closure of amenity</b>  |
| 3  | 23 ≤ Fp ≤ 60                        |  | highly objectionable<br><b>closure of amenity</b>               |
| 4  | Fp < 23                             |  |   |

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