



## OSPAR List of Substances / Preparations Used and Discharged Offshore which Are Considered to Pose Little or No Risk to the Environment (PLONOR)

(Reference number: 2004-10)<sup>1</sup>

### Criteria for inclusion of substances in the PLONOR List

- The list at Appendix 1 contains substances<sup>2</sup> / preparations whose use and discharge offshore:
  - is subject to expert judgement by the competent national authority of Contracting Parties; or
  - does not need to be strongly regulated as, from experience of their discharge, the OSPAR Commission considers that they pose little or no risk to the environment. The list includes natural constituents of sea water, natural products e.g. nutshells, and other substances / preparations where some relevant toxicity data is available:
- Requests to the Offshore Industry Committee for inclusion of new substances on this list should be accompanied by appropriate data required for a prior assessment. The acceptance criteria are the following:

Category and acceptance criteria	Minimum data required for assessment
All substances	<ul style="list-style-type: none"><li>Part 1 and 3 of HOCNF shall be completed</li><li>CAS-number(s) shall be provided</li><li>Documentation that substances have no CMR (carcinogenic, mutagenic, reproductive) properties</li><li>Classification with risk phrases according to Council Directive 67/548/EEC, Annex VI does not lead to any of the following risk phrases: R50, R50/53, R51/53, R52/53, R52, R53</li></ul>
<b>In addition :</b>	
a. <b>Inorganic salts</b> (naturally occurring/constituents of seawater) <sup>3</sup>	<ul style="list-style-type: none"><li>Information on oxygen depletion (bisulphites)</li></ul>
b. <b>Minerals</b> (difficult to test substances, not soluble in seawater)	<ul style="list-style-type: none"><li>Information about exposure pathways; effects by digestion by sediment dwelling organisms</li></ul>

1 Source: OSPAR 2004 Summary Record - OSPAR 04/23/1, Annex 9; Revisions to the List were made in January 2005 following a written procedure to add CAS numbers and names; OIC 2005 amended the List by adding new substances and CAS numbers – OIC 2005 Summary Record 05/15/1, Annex 6.

2 A substance means “a chemical element or compound in the natural state or obtained by any production process, including any additive necessary to preserve the stability of the product and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition”.

3 Does not include salts of heavy metals.

Category and acceptance criteria	Minimum data required for assessment
<p>c. <b>Organic substances meeting the following criteria:</b></p> <ol style="list-style-type: none"> <li>1. no CMR properties (carcinogenicity from the IARC List or carcinogenic properties or substances as mentioned on the IARC List or labelled by R45 under Council Directive 67/548/EEC) <u>and</u></li> <li>2. LC50 or EC50 &gt; 100 mg/L <u>and</u></li> <li>3. Log Pow &lt;3 or BCF &lt;100 or MW&gt;1,000 <u>and</u> substance ready biodegradable according to OECD 306 or equivalent (seawater biodegradation tests)</li> </ol> <p>c.1 <b>salts, organic acids, and other water soluble substances (e.g. glycols &amp; alcohols)</b></p> <p>c.2. <b>Other organic substances non-water soluble (e.g. nutshells, fibres)</b></p>	<ul style="list-style-type: none"> <li>• Part 2 of HOCNF: Literature data on accumulation potential (log Pow or BCF) and toxicity (both marine and freshwater) are acceptable.</li> <li>• Biodegradation data in accordance with marine protocols (OECD 306 or equivalent)</li> </ul> <ul style="list-style-type: none"> <li>• Information on oxygen depletion, eutrophication, physical effects etc</li> </ul>

3. Requests to remove substances from this list, can only be considered if Contracting Parties submit to the Offshore Industry Committee a reasoned cause of concern which needs to be considered against the criteria mentioned in paragraph 2 above. Such requests should be accompanied by the data required for a prior assessment by OIC.

***Procedure for including new substances in the PLONOR List, or for including new CAS Numbers for existing substances on the list***

4. Any supplier, vendor or organisation wishing to put forward a new candidate substance for inclusion in the PLONOR List, or to add additional CAS numbers to substances already on the PLONOR List, should submit a request to a sponsor Contracting Party. The data<sup>4</sup> should be submitted in accordance with the criteria above.

5. The sponsor Contracting Party should review the data to ensure that the criteria are met and that they are satisfied with the data presented. The sponsor Contracting Party should circulate the data, preferably in electronic form, to the national contact points of other Contracting Parties (see Annex 7 of the Summary Record OIC 05/15/1) at least 20 weeks before the annual meeting of the Offshore Industry Committee, with a recommendation for inclusion of substances in the PLONOR list or the inclusion of additional CAS numbers for substance already on the list.

6. The national contact points under the lead of the sponsor Contracting Party should work in accordance with the working procedures for intersessional correspondence groups in paragraph 41-42 of the Rules of Procedure of the OSPAR Commission (reference number: 2005-17) when preparing proposals for consideration at the annual meeting of the Offshore Committee. These proposals to be submitted by the sponsor Contracting Party at least six weeks before the meeting should contain a short description of comments or objections raised by Contracting Parties and the way in which the sponsor Contracting Party has taken these comments or objections into account in their final proposal to OIC.

---

<sup>4</sup> Any data presented in HOCNF Format would not require necessarily any particular vendor details or tonnage used, as PLONOR list items may be supplied by a number of vendors etc. Supplier details and tonnage would need to be given and considered at the time of use when applying for a permit under national regulations for the implementation of the Harmonised Mandatory Control System under OSPAR Decision 2000/3. The sponsor Contracting Party could possibly give an indication of current tonnage used in their own area, if this information is readily to hand.

**Agreement 2004 – 10**  
**OIC 2005 Revision of**  
**OSPAR List of Substances / Preparations Used and Discharged Offshore which Are**  
**Considered to Pose Little or No Risk to the Environment (PLONOR)**

CAS Number	EINECS Number	Substance/Preparation
64-19-7	200-580-7	Acetic acid
1335-30-4	215-628-2	Aluminium silicate
12141-46-7	235-253-8	Aluminium silicate (Al <sub>2</sub> SiO <sub>5</sub> )
12068-56-3	235-102-6	Aluminium silicate (Al <sub>6</sub> Si <sub>2</sub> O <sub>13</sub> )
22708-90-3	245-167-2	Aluminium silicate 1:2 (Al <sub>1/2</sub> H <sub>6</sub> O <sub>7</sub> Si <sub>2</sub> )
14504-95-1	238-509-7	Aluminium silicate 3:2 (Al <sub>3/2</sub> H <sub>2</sub> O <sub>3</sub> Si)
1332-58-7	310-194-1	Aluminium silicate, hydrated (Kaolin)
1318-93-0	215-288-5	Aluminium silicate (Montmorillonite)
10043-01-3	233-135-0	Aluminium sulphate
7722-76-1	231-764-5	Ammonium dihydrogen phosphate ((NH <sub>4</sub> )H <sub>2</sub> PO <sub>4</sub> )
10124-31-9	233-330-0	Ammonium acid phosphate / phosphoric acid, ammonium salt (NH <sub>3</sub> .xH <sub>3</sub> PO <sub>4</sub> )
10192-30-0	233-469-7	Ammonium bisulphite
12125-02-9	235-186-4	Ammonium chloride
1336-21-6	215-647-6	Ammonium hydroxide
10196-04-0	233-484-9	Ammonium sulphite
9000-92-4	232-567-7	Amylase
9000-90-2	232-565-6	Amylase α - <i>Aspergillus oryzae</i>
9000-91-3	232-566-1	Amylase β
9032-08-0	232-877-2	Amylase γ, amylase gluco
9000-85-5	232-560-9	Amylase, bacterial
9013-01-8	232-742-8	Amylase, fungal
9067-73-6	232-956-1	Amylase, iso-
9005-84-9	232-686-4	Amylodextrin (starch, soluble)
50-81-7	200-066-2	Ascorbic acid
89-65-6	201-928-0	Isoascorbic acid
12174-11-7	-	Attapulgite clay
1327-41-9	215-477-2	Basic aluminium chloride
13462-86-7	236-664-5	Barite
7727-43-7	231-784-4	Barium sulphate
1302-78-9	215-108-5	Bentonite
70131-50-9	274-324-8	Bentonite, acid-leached
71-36-3	200-751-6	Butanol (Butan-1-ol)
7789-41-5	232-164-6	Calcium bromide
71626-99-8	-	Calcium bromide, hydrate (Br <sub>2</sub> Ca <sub>x</sub> H <sub>2</sub> O)
471-34-1	207-439-9	Calcium carbonate
1317-65-3	215-279-6	Calcium carbonate (marble or limestone)
10043-52-4	233-140-8	Calcium chloride
10035-04-8	-	Calcium chloride, dehydrate CaCl <sub>2</sub> .2H <sub>2</sub> O

CAS Number	EINECS Number	Substance/Preparation
1305-62-0	215-137-3	Calcium hydroxide
8061-52-7	-	Calcium lignosulphate
10124-37-5	233-332-1	Calcium nitrate
1305-78-8	215-138-9	Calcium oxide (lime)
10103-46-5	233-283-6	Calcium phosphate
7758-23-8	231-837-1	Calcium dihydrogen phosphate ( $\text{Ca}(\text{H}_2\text{PO}_4)_2$ )
7790-76-3	232-221-5	Calcium diphosphate ( $\text{Ca}_2\text{P}_2\text{O}_7$ ) or Dicalcium pyrophosphate ( $\text{Ca}_{1/2}\text{H}_4\text{O}_7\text{P}_2$ )
7757-93-9	231-826-1	Calcium hydrogen phosphate ( $\text{CaHPO}_4$ )
7758-87-4	231-840-8	Calcium orthophosphate ( $\text{Ca}_3(\text{PO}_4)_2$ )
1592-23-0	216-472-8	Calcium stearate
7778-18-9	231-900-3	Calcium sulphate (Gypsum)
10101-41-4	-	Calcium sulphate dihydrate ( $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ )
10034-76-1	-	Calcium sulphate hemihydrate ( $\text{CaSO}_4 \cdot 0.5\text{H}_2\text{O}$ )
9004-30-2	Polymer	Carboxy methyl hydroxy ethyl cellulose
125494-51-1	-	Causticized lignite
9012-54-8	232-734-4	Cellulase
9025-56-3	232-799-9	Hemicellulase
-	-	Cement, Grade G
77-92-9	201-069-1	Citric acid
5949-29-1	-	Citric acid, monohydrate
65996-61-4	265-995-8	Cellulose fibre
9004-34-6	232-674-9	Cellulose crystalline
Mixture	Mixture	Cornstarch, hydroxyl ethyl cellulose, calcium carbonate
-	-	Cotton seed hulls
61790-53-2	-	Diatomaceous earth
91053-39-3	293-303-4	Diatomaceous earth, calcined (Kieselguhr calcined)
10034-77-2	233-107-8	Dicalcium silicate
16389-88-1	240-440-2	Dolomite
64-17-5	200-578-6	Ethanol
64-17-5	200-578-6	Ethanol (denatured)
9004-57-3	-	Ethyl cellulose
10028-22-5	233-072-9	Ferric sulphate
12003-38-2	234-426-5	Fluorophlogopite (Mica, synthetic)
63-71-3	209-259-6	Ferrous carbonate
64-18-6	200-579-1	Formic acid ( $\text{HCOOH}$ )5
-	-	Glass beads
56-81-5	200-289-5	Glycerine
7782-42-5	231-955-3	Graphite
7440-44-0	231-153-3	Carbon
9000-30-0	232-536-8	Guar gum
7778-18-9	231-900-3	Gypsum (Calcium sulphate)

5 Reservation from Denmark and the Netherlands on the inclusion of formic acid ( $\text{HCOOH}$ ).

CAS Number	EINECS Number	Substance/Preparation
1317-60-8	215-275-4	Hematite, iron oxide (Fe <sub>2</sub> O <sub>3</sub> )
9004-62-0	-	Hydroxyethyl cellulose
9004-62-0	-	2-Hydroxyethyl ether cellulose
39421-75-5	-	Hydroxypropyl guar gum
12168-52-4	308-551-1	Ilmenite
10290-71-8	233-647-4	Iron carbonate
563-71-3	209-259-6	Iron carbonate (FeCO <sub>3</sub> )
62997-05-1	-	Iron (II) lignosulphonate
39331-38-9		Iron lignosulphonate, all oxidation states
1332-37-2	215-570-8	Iron oxides
1317-60-8	215-275-4	Iron oxide, Hematite (Fe <sub>2</sub> O <sub>3</sub> )
1345-25-1	215-721-8	Iron (II) oxide (FeO)
1309-37-1	215-168-2	Iron (III) oxide (Fe <sub>2</sub> O <sub>3</sub> )
1317-61-9	215-277-5	Mixed iron (II + III) oxide / iron oxide (Fe <sub>3</sub> O <sub>4</sub> )
67-63-0	200-661-7	Isopropanol
1332-58-7	310-194-1	Kaolin (aluminium silicate, hydrated)
63-42-3	200-559-2	Lactose
8002-43-5	232-307-2	Lecithin
8030-76-0	310-129-7	Lecithins, soya (soya beans)
9005-53-2	232-682-2	Lignin
8002-53-7	232-313-5	Lignite
1305-78-8	215-138-9	Lime (calcium oxide)
1317-65-3	215-279-6	Limestone (calcium carbonate or marble)
7786-30-3	232-094-6	Magnesium chloride
7791-18-6	-	Magnesium chloride hexahydrate (MgCl <sub>2</sub> .6H <sub>2</sub> O)
1309-48-4	215-171-9	Magnesium oxide
68412-28-2	270-182-6	Magnesium hydroxide (lightly calcinated)
1309-42-8	215-170-3	Magnesium hydroxide
1317-35-7	215-266-5	Manganese tetraoxide
67-56-1	200-659-6	Methanol
12003-38-2	234-426-5	Mica, synthetic (fluorophlogopite)
12001-26-2	310-127-6	Mica group minerals
107-21-1	203-473-3	Monoethylenglycol
1318-93-0	215-288-5	Montmorillonite (aluminium silicate)
-	-	Nutshells
-	-	Olive pits
-	-	Polysaccharide containing glucose, mannose and glucuronic acid units
584-08-7	209-529-3	Potash
298-14-6	206-059-0	Potassium bicarbonate
584-08-7	209-529-3	Potassium carbonate
7447-40-7	231-211-8	Potassium chloride
590-29-4	209-677-9	Potassium formate
7681-11-0	231-659-4	Potassium iodide, anhydrous

CAS Number	EINECS Number	Substance/Preparation
7757-79-1	231-818-8	Potassium nitrate
16068-46-5	240-213-8	Potassium phosphate
7758-11-4	231-834-5	Potassium phosphate dibasic ( $K_2HPO_4$ or $H_3O_4P.2K$ )
7778-53-2	231-907-1	Potassium phosphate tribasic ( $K_3PO_4$ )
7778-77-0	231-913-4	Potassium phosphate monobasic ( $KH_2PO_4$ )
14887-42-4	238-961-5	Phosphoric acid, potassium salt (2 :1) ( $KH_5(PO_4)_2$ )
9005-25-8	232-679-6	Pregelatinized potato starch
71-23-8	200-746-9	Propanol
7758-16-9	231-835-0	Pyrophosphate (sodium acid pyrophosphate; SAPP)
63231-67-4	-	Silica gel
1343-98-2	215-683-2	Silicic acid
14808-60-7	238-878-4	Silica sand
7631-86-9	231-545-4	Silicon dioxide
497-19-8	207-838-8	Soda ash (sodium carbonate)
127-09-3	204-823-8	Sodium acetate
6131-90-4	-	Sodium acetate trihydrate ( $C_2H_4O_2.3H_2O.Na$ )
532-32-1	208-534-8	Sodium benzoate
144-55-8	205-633-8	Sodium bicarbonate
7631-90-5	231-548-0	Sodium bisulphite
7681-57-4	231-673-0	Sodium metabisulphite ( $Na_2S_2O_5$ )
6834-92-0	229-912-9	Sodium metasilicate ( $Na_2SiO_3$ )
1333-73-9	215-604-1	Sodium borate
1330-43-4	215-540-4	Disodium tetraborate, anhydrous ( $Na_2B_4O_7$ )
12179-04-3	215-540-4	Disodium tetraborate penta-hydrate ( $Na_2B_4O_7.5H_2O$ )
1303-96-4	215-540-4	Disodium tetraborate deca-hydrate / Borax ( $Na_2B_4O_7.10H_2O$ )
11138-47-9	234-390-0	Sodium perborate, anhydrous / Perboric acid, sodium salt ( $NaBO_3$ )
10332-33-9	234-390-0	Sodium perborate mono-hydrate ( $NaBO_3.H_2O$ )
10486-00-7	234-390-0	Sodium perborate tetrahydrate ( $NaBO_3.4H_2O$ )
12007-92-0	234-522-7	Sodium pentaborate, anhydrous ( $Na_2B_{10}O_{16}$ )
12631-71-9	234-522-7	Sodium pentaborate penta-hydrate ( $Na_2B_{10}O_{16}.5H_2O$ )
12008-41-2	234-541-0	Disodium octaborate, (anhydrous) ( $Na_2B_8O_{13}$ )
12280-03-4	234-541-0	Disodium octaborate tetra-hydrate ( $Na_2B_8O_{13}.4H_2O$ )
12267-73-1	235-541-3	Disodium tetraborate / Boron sodium oxide, hydrated ( $Na_2B_4O_7.xH_2O$ )
13840-56-7	237-560-2	Boric acid, sodium salt
7647-15-6	231-599-9	Sodium bromide
497-19-8	207-838-8	Sodium carbonate (Soda Ash)
3313-92-6	222-003-8	Sodium percarbonate ( $Na_2C_2H_2O_6$ )
5968-11-6	-	Sodium carbonate monohydrate ( $CO_3.H_2O.2Na$ )
6132-02-1	-	Sodium carbonate decahydrate ( $Na_2CO_3.10H_2O$ )
9004-32-4	-	Sodium carboxymethylcellulose
7647-14-5	231-598-3	Sodium chloride

CAS Number	EINECS Number	Substance/Preparation
141-53-7	205-488-0	Sodium formate
8061-51-6	-	Sodium lignosulphonate
7631-99-4	231-554-3	Sodium nitrate
7632-00-0	231-555-9	Sodium nitrite (NaNO <sub>2</sub> )
7632-05-5	231-558-5	Sodium phosphate
7558-80-7	231-449-2	Sodium dihydrogen phosphate (NaH <sub>2</sub> PO <sub>4</sub> )
7601-54-9	231-509-8	Sodium phosphate (Na <sub>3</sub> PO <sub>4</sub> )
7722-88-5	231-767-1	Sodium pyrophosphate (Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> )
7758-29-4	231-838-7	Pentasodium triphosphate (Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub> )
7785-84-4	232-088-3	Trisodium triphosphate ((NaPO <sub>3</sub> ) <sub>3</sub> )
10124-56-8	233-343-1	Sodium polymetaphosphate / Sodium hexametaphosphate (Na <sub>6</sub> (PO <sub>3</sub> ) <sub>6</sub> )
10361-03-2	233-782-9	Sodium metaphosphate (NaPO <sub>3</sub> )
14691-80-6	238-735-6	Trisodium diphosphate (Na <sub>3</sub> HP <sub>2</sub> O <sub>7</sub> )
50813-16-6	256-779-4	Sodium polymetaphosphate / Metaphosphoric acid, sodium salt)
65185-91-3	265-604-0	Trisodium trihydrogen bis phosphate (Na <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> )
1344-09-8	215-687-4	Sodium silicate
13870-28-5	237-623-4	Disodium disilicate (Na <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> )
13472-30-5	236-741-3	Tetrasodium orthosilicate (Na <sub>4</sub> (SiO <sub>4</sub> ))
13870-30-9	237-626-0	Disodium trisilicon heptaoxide (Na <sub>2</sub> Si <sub>3</sub> O <sub>7</sub> )
15593-82-5	239-671-1	Hexasodium diorthosilicate (Na <sub>6</sub> Si <sub>2</sub> O <sub>7</sub> )
7757-82-6	231-890-9	Sodium sulphate, anhydrous
7727-73-3		Sodium sulphate decahydrate
7757-83-7	231-821-4	Sodium sulphite
14986-84-6	239-073-0	Sodium tetraphosphate
10102-17-7	-	Sodium thiosulphate pentahydrate
7772-98-7	231-867-5	Sodium thiosulphate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> )
50-70-4	200-061-5	Sorbitol
9005-25-8	232-679-6	Starch (without additives)
9005-84-9	232-686-4	Starch, soluble (amylopectrin)
68476-78-8	270-698-1	Sugarcane molasses
12168-85-3	235-336-9	Tricalcium silicate
57-13-6	200-315-5	Urea
-	-	Vegetable fibre
1318-00-9	-	Vermiculite
68608-58-2	271-787-8	Whey, Protein-free Whey permeate
-	-	Wood fibres
11138-66-2	234-394-2	Xanthan gum
-	Mixture	25% amylase / 75% amylopectin polymer (only as a preservative for pregelatinised starch with a maximum concentration of 5%)
-	Polymer	High MW hydroxy ethyl cellulose polymer
-	Polymer	Hydroxypropylated cross-linked corn starch

Hyphen (-) indicates that no CAS number or EINECS number is available (where no EINECS number is available, the chemical may not be available in the European Union).

No entry ( ) indicates that CAS number or EINECS number has still to be identified.