



**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>**

2008 UPDATE

*Criteria for inclusion of substances in the PLONOR list*

**Substances in the PLONOR list**

1. The list at Appendix 1 contains substances whose use and discharge offshore is subject to expert judgement by the competent national authority of Contracting Parties. These substances do not normally need to be strongly regulated as, from assessment of their intrinsic properties, the OSPAR Commission considers that they pose little or no risk to the environment.

**Criteria for inclusion of substances in the PLONOR list**

2. Requests to the Offshore Industry Committee for inclusion of new substances on this list should be accompanied by the appropriate data required to undertake a prior assessment. The data required and the acceptance criteria are the following:

Categories	Minimum data required for assessment	Acceptance criteria
All substances, including inorganic salts (naturally occurring or constituents of seawater) <sup>2</sup> , and other natural organic substances, non-water soluble (e.g. nutshells, fibres etc.)	<ul style="list-style-type: none"> <li>- Parts 1 and 3 of HOCNF shall be completed,</li> <li>- supported by the Safety Data Sheets if necessary</li> <li>- CAS-number(s) shall be provided if they exist</li> </ul>	<ul style="list-style-type: none"> <li>- Classification with risk phrases according to Council Directive 67/548/EEC, Annex VI <u>does not lead</u> to any of the following risk phrases: R50, R50/53, R51, R51/53, 52, R52/53, R53<sup>3</sup>.</li> <li>- The substance is not Carcinogenic (cat 1 &amp; 2)<sup>4</sup>, Mutagenic (cat 1 &amp; 2) or Toxic for Reproduction (Cat 1, 2 &amp;3)</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. OIC 2006 revised the criteria, see OIC 06/13/1, Annex 5. OIC 2007 agreed to add calcium ammonium nitrate to the list. OIC 2008 agreed on additions and changes, see OIC 2008 Summary Record paragraph 3.38

2 Does not include salts of heavy metals.

3 For Substances classified by R50, R50/53, R51, R51/53, R52, R52/53, R53 exceptions can be made from these criteria, providing the properties of the substances are different in seawater (e.g. pH effects of acids, bases, salts).

4 Exception must be made for exposure routes not relevant to the marine environment, e.g. R49 *May cause cancer by inhalation*.

In addition:		
Chemical substances		
Soluble organic substances (e.g. salts, acids, glycols and alcohols)	<ul style="list-style-type: none"> <li>- Part 2 of HOCNF:</li> <li>- literature data or test results relating to accumulation potential (e.g. log Pow or BCF or Molecular Weight);</li> <li>- literature data or test results relating to biodegradation, in accordance with marine protocols (e.g OECD 306) or freshwater data (e.g OECD 301 ready series) applying a safety factor of 0.7;</li> <li>- literature data or test results for marine or freshwater toxicity;</li> </ul>	<ul style="list-style-type: none"> <li>- LC50 or EC50 &gt; 100 mg/l, <u>and</u></li> <li>- log Pow &lt; 3 <u>or</u> BCF &lt; 100 <u>or</u> MW &gt; 700; <u>and</u></li> <li>- substance readily biodegradable.</li> </ul>
Others <sup>5</sup>		
Manmade organic substances, non water-soluble	<ul style="list-style-type: none"> <li>- literature data or test results relating to exposure pathways; e.g. effects on sediment re-working organisms;</li> <li>- literature data or test results relating to biodegradation.</li> </ul>	
Minerals	<ul style="list-style-type: none"> <li>- literature data or test results relating to exposure pathways; e.g. effects on sediment re-working organisms</li> </ul>	

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

3. 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>6</sup> for new substances should be submitted in accordance with the criteria above.

4. The sponsor Contracting Party should review the data to ensure that the criteria are met and that they are satisfied with the data presented. If the sponsor Contracting Party considers that the request should be approved, that Contracting Party should then circulate the data, preferably in electronic form, to the List of National Contact Points Concerning Chemicals used Offshore (see the appropriate Annex of the most recent OIC Summary Record) 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.

<sup>5</sup> Information on oxygen depletion, eutrophication, physical effects etc has been deleted as a criterion since these effects are dealt with as part of risk assessments.

<sup>6</sup> Data presented in the HOCNF does not have to have any particular vendor details or tonnage to be used, as PLONOR list items may be supplied by a number of vendors etc. Supplier details and tonnage to be used would have to be provided 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 2000/2. However, the sponsor Contracting Party may provide an indication of current tonnage used in their own area, if this information is readily to hand.

5. The national contact points under the lead of the sponsor Contracting Party should work in accordance with the working procedures for intersessional correspondence groups as described in the current version of the Rules of Procedure of the OSPAR Commission. Following receipt of any comments from the national contact points, within the specified deadlines, the sponsor Contracting Party should prepare a final proposal for consideration at the annual meeting of the Offshore Committee. The proposal should be submitted by the sponsor Contracting Party at least six weeks before the annual meeting and 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.
6. Requests to remove substances from the PLONOR list can only be generated by Contracting Parties, and must be the subject of a proposal for consideration at the annual meeting of the Offshore Industry Committee. The proposal should be submitted by the relevant Contracting Party at least six weeks before the annual meeting and must contain a reasoned cause of concern related to the criteria mentioned in paragraph 2 above. Such requests should also be accompanied by the data required for assessment by OIC.
7. Adoption of any proposal submitted to OIC will require the unanimous approval of the Contracting Parties represented at OIC.

**OIC 2008 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/Synonyms
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)
9037-22-3	932-911-6	Amylopectin
50-81-7	200-066-2	Ascorbic acid
89-65-6	201-928-0	Isoascorbic acid
12174-11-7	-	Attapulgate 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)
15245-12-2	239-289-5	Calcium ammonium nitrate
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/Synonyms
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
-	-	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 ( $\text{HCOOH}$ ) <sup>7</sup>
-	-	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)
9004-62-0	-	Hydroxyethyl cellulose, 2-Hydroxyethyl ether cellulose

<sup>7</sup> Reservation from Denmark and the Netherlands on the inclusion of formic acid ( $\text{HCOOH}$ ).

CAS Number	EINECS Number	Substance/Synonyms
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
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)
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
12001-26-2	310-127-6	Mica group minerals
107-21-1	203-473-3	Monoethylenglycol
-	-	Nutshells
-	-	Olive pits
-	-	Polysaccharide containing glucose, mannose and glucuronic acid units
65997-15-1	266-043-4	Portland cement clinker
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
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 <sub>2</sub> HPO <sub>4</sub> or H <sub>3</sub> O <sub>4</sub> P.2K)
7778-53-2	231-907-1	Potassium phosphate tribasic (K <sub>3</sub> PO <sub>4</sub> )
7778-77-0	231-913-4	Potassium phosphate monobasic (KH <sub>2</sub> PO <sub>4</sub> )
14887-42-4	238-961-5	Phosphoric acid, potassium salt (2 :1) (KH <sub>5</sub> (PO <sub>4</sub> ) <sub>2</sub> )

CAS Number	EINECS Number	Substance/Synonyms
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
127-09-3	204-823-8	Sodium acetate
6131-90-4	-	Sodium acetate trihydrate (C <sub>2</sub> H <sub>4</sub> O <sub>2</sub> .3H <sub>2</sub> O.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 <sub>2</sub> S <sub>2</sub> O <sub>5</sub> )
6834-92-0	229-912-9	Sodium metasilicate (Na <sub>2</sub> SiO <sub>3</sub> )
1333-73-9	215-604-1	Sodium borate
1330-43-4	215-540-4	Disodium tetraborate, anhydrous (Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> )
12179-04-3	215-540-4	Disodium tetraborate penta-hydrate (Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> .5H <sub>2</sub> O)
1303-96-4	215-540-4	Disodium tetraborate deca-hydrate / Borax (Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> .10H <sub>2</sub> O)
12007-92-0	234-522-7	Sodium pentaborate, anhydrous (Na <sub>2</sub> B <sub>10</sub> O <sub>16</sub> )
12631-71-9	234-522-7	Sodium pentaborate penta-hydrate (Na <sub>2</sub> B <sub>10</sub> O <sub>16</sub> .5H <sub>2</sub> O)
12008-41-2	234-541-0	Disodium octaborate, (anhydrous) (Na <sub>2</sub> B <sub>8</sub> O <sub>13</sub> )
12280-03-4	234-541-0	Disodium octaborate tetra-hydrate (Na <sub>2</sub> B <sub>8</sub> O <sub>13</sub> . 4H <sub>2</sub> O)
12267-73-1	235-541-3	Disodium tetraborate / Boron sodium oxide, hydrated (Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> .xH <sub>2</sub> O)
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 <sub>2</sub> C <sub>2</sub> H <sub>2</sub> O <sub>6</sub> )
5968-11-6	-	Sodium carbonate monohydrate (CO <sub>3</sub> .H <sub>2</sub> O.2Na)
6132-02-1	-	Sodium carbonate decahydrate (Na <sub>2</sub> CO <sub>3</sub> .10H <sub>2</sub> O)
9004-32-4	-	Sodium carboxymethylcellulose
7647-14-5	231-598-3	Sodium chloride
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

CAS Number	EINECS Number	Substance/Synonyms
10361-03-2	233-782-9	(Na <sub>6</sub> (PO <sub>3</sub> ) <sub>6</sub> ) 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)
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
92129-93-6		Whey lactose low
		Whey permeate
-	-	Wood fibres
11138-66-2	234-394-2	Xanthan gum
-	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.