

First published in the *Government Gazette*, Electronic Edition, on 31 August 2017 at 5 pm.

No. S 494

**PREVENTION OF POLLUTION OF THE SEA ACT
(CHAPTER 243)**

**PREVENTION OF POLLUTION OF THE SEA
(NOXIOUS LIQUID SUBSTANCES IN BULK)
(AMENDMENT) REGULATIONS 2017**

In exercise of the powers conferred by section 34 of the Prevention of Pollution of the Sea Act, the Maritime and Port Authority of Singapore, with the approval of the Minister for Transport, makes the following Regulations:

Citation and commencement

1. These Regulations are the Prevention of Pollution of the Sea (Noxious Liquid Substances in Bulk) (Amendment) Regulations 2017 and come into operation on 1 September 2017.

Deletion and substitution of Appendix 1 of First Schedule

2. Appendix 1 of the First Schedule to the Prevention of Pollution of the Sea (Noxious Liquid Substances in Bulk) Regulations 2006 (G.N. No. S 686/2006) is deleted and the following Appendix substituted therefor:

“APPENDIX 1

GUIDELINES FOR THE CATEGORIZATION OF
NOXIOUS LIQUID SUBSTANCES*

Products are assigned to Pollution Categories based on an evaluation of their properties as reflected in the resultant GESAMP Hazard Profile as shown in the table below:

Rule	A1 Bio- accumulation	A2 Bio- degradation	B1 Acute toxicity	B2 Chronic toxicity	D3 Long-term health effects	E2 Effects on marine wildlife and on benthic habitats	Cat
1			≥ 5				X
2	≥ 4		4				
3		NR	4				
4	≥ 4	NR			CMRTNI		
5			4				Y
6			3				
7			2				
8	≥ 4	NR		Not 0			
9				≥ 1			
10						Fp, F or S If not Inorganic	
11					CMRTNI		
12	Any product not meeting the criteria of rules 1 to 11 and 13						Z
13	All products identified as: ≤ 2 in column A1; R in column A2; blank in column D3; not Fp, F or S (if not organic) in column E2; and 0 (zero) in all other columns of the GESAMP Hazard Profile						OS

* Reference is made to MEPC.1/Circ.512 on the Revised Guidelines for the provisional assessment of liquid substances transported in bulk.

The Revised GESAMP hazard evaluation procedure

Columns A & B — Aquatic Environment					
rating	A Bioaccumulation and Biodegradation			B Aquatic Toxicity	
	A1 Bioaccumulation		A2 Biodegradation	B1 Acute Toxicity LC/EC/IC ₅₀ (mg/l)	B2 Chronic Toxicity NOEC (mg/l)
	log P _{ow}	BCF			
0	< 1 or > ca.7	no measurable BCF	R : readily biodegradable NR : not readily biodegradable	> 1000	> 1
1	≥ 1 – < 2	≥ 1 – < 10		> 100 – ≤ 1000	> 0.1 – ≤ 1
2	≥ 2 – < 3	≥ 10 – < 100		> 10 – ≤ 100	> 0.01 – ≤ 0.1
3	≥ 3 – < 4	≥ 100 – < 500		> 1 – ≤ 10	> 0.001 – ≤ 0.01
4	≥ 4 – < 5	≥ 500 – < 4000		> 0.1 – ≤ 1	≤ 0.001
5	≥ 5 – < ca.7	> 4000		> 0.01 – ≤ 0.1	
6				≤ 0.01	