

ATTACHMENT 2

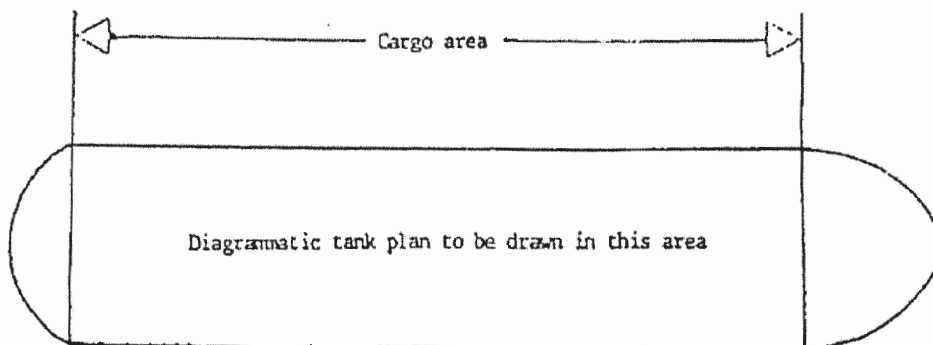
TO THE

INTERNATIONAL CERTIFICATE OF FITNESS FOR THE  
CARRIAGE OF DANGEROUS CHEMICALS IN BULK

TANK PLAN (specimen)

Name of ship: .....

Distinctive number or letters: .....



Date.....  
(as for Certificate)

.....  
(Signature of official issuing the Certificate  
and/or seal or stamp of issuing authority)"

第 93/2014 號行政長官公告

Aviso do Chefe do Executivo n.º 93/2014

中華人民共和國是國際海事組織的成員國及一九七四年十一月一日訂於倫敦的《國際海上人命安全公約》的締約國；

Considerando que a República Popular da China é um Estado Membro da Organização Marítima Internacional e um Estado Contratante da Convenção Internacional para a Salvaguarda da Vida Humana no Mar, concluída em Londres, em 1 de Novembro de 1974;

國際海事組織海上安全委員會於一九九二年十二月十一日透過第MSC.28(61)號決議通過了《國際散裝運輸危險化學品船舶構造和設備規則》修正案，且有關修正案自一九九九年十二月二十日起對澳門特別行政區生效；

Considerando igualmente que, em 11 de Dezembro de 1992, o Comité de Segurança Marítima da Organização Marítima Internacional, através da resolução MSC.28(61), adoptou emendas ao Código Internacional para a Construção e Equipamento de Navios que Transportam Substâncias Químicas Perigosas a Granel, e que tais emendas entraram em vigor, em relação à Região Administrativa Especial de Macau, em 20 de Dezembro de 1999;

基於此，行政長官根據澳門特別行政區第3/1999號法律第六條第一款的規定，命令公佈包含上指修正案的MSC.28(61)號決議的中文及英文文本。

O Chefe do Executivo manda publicar, nos termos do n.º 1 do artigo 6.º da Lei n.º 3/1999 da Região Administrativa Especial de Macau, a resolução MSC.28(61), que contém as referidas emendas, nos seus textos em línguas chinesa e inglesa.

二零一四年十一月十二日發佈。

Promulgado em 12 de Novembro de 2014.

行政長官 崔世安

O Chefe do Executivo, Chui Sai On.

## 第 MSC.28 (61) 號決議

(1992 年 12 月 11 日通過)

通過《國際散裝運輸危險化學品船舶構造和設備規則》

修正案

(《國際散化規則》)

海上安全委員會，

憶及《國際海事組織公約》關於本委員會職責的第 28 (b) 條，

還憶及委員會據以通過《國際散裝運輸危險化學品船舶構造和設備規則》(《國際散化規則》) 的海上安全委員會第 MSC.4 (48) 號決議，

又憶及經修正的《1974 年國際海上人命安全公約》(《海上安全公約》) 關於《國際散化規則》修正程序的第 VIII (b) 條和第 VII/8.1 條，

希望使《國際散化規則》符合最新的要求，

在其第六十一次會議上，審議了根據《海上安全公約》第 VIII (b) (i) 條提出和分發的該規則修正案，

認為按照經《1978 年議定書》修正的《1973 年國際防止船舶造成污染公約》(《73/78 年防污公約》) 和《1974 年海上安全公約》成為強制性規定的《國際散化規則》是十分需要的，

1. 按《安全公約》第 VIII (b) (iv) 條，通過該規則的修正案，該修正案的條文載於本決議的附件中；
2. 按該公約第 VIII (b) (vi) (2) (bb) 條決定，該修正案應在 1994 年 1 月 1 日視為已被接受，除非在該日期以前有超過三分之一的《安全公約》的締約政府或其商船隊合計總噸位不少於世界商船隊總噸位百分之五十的締約國政府作出了反對這些修正案的**通知**；
3. 請締約國政府注意，按《安全公約》第 VIII (b) (vii) (2) 條，該修正案在按上述第 2 段被接受後，應於 1994 年 7 月 1 日生效；
4. 要求秘書長按照《安全公約》第 VIII (b) (v) 條的規定，將本決議和載於附件中的修正案的核正證無誤副本分發給《安全公約》的所有締約政府；
5. 還要求秘書長將本決議及其附件的副本分發給不是《安全公約》締約政府的本組織會員。

## 附件

### 《國際散化規則》修正案

1.1.1 的最後一句由下述者取代：

經審查確定其安全和污染危害程度未達到需要實施本規則的製品列於第 18 章中。

在 1.1.3 現有條文後加上下述句子：

在評估這種製品的污染危害和確定其污染等級時，必須遵照《73/78 年防污公約》附件 II 第 3（4）條中規定的程序。

第 8 章已有條文由下述者取代：

## 第 8 章

### 貨艙透氣和除氣裝置

#### 8.1 適用範圍

8.1.1 本章適用於在 1994 年 1 月 1 日或以後建造的船舶。

8.1.2 1994 年 1 月 1 日前建造的船舶應符合在本規則第 8 章所述日期前實施的要求。

8.1.3 就本條而言，“已建船舶”一詞的定義與經修正的《1974 年海上安全公約》第 II-1/1.3.1 條的定義相同。

8.1.4 在 1986 年 7 月 1 日或以後但在 1994 年 1 月 1 日前建造的船舶，如完全符合本規則在那時所適用的要求，則可視為符合《1974 年安全公約》第 II-2/59 條的要求。

8.1.5 對本規則所適用的船舶，本章要求應適用，以代替經修正的《1974 年安全公約》的第 II-2/59.1 和 59.2 條。

## 8.2 貨艙透氣

8.2.1 所有貨艙應設置適合於所裝運貨物的透氣系統，這些系統應獨立於該船的所有其他艙室的空氣管和透氣系統。貨艙透氣系統應設計成能減少貨物蒸氣在甲板集聚、進入居住、服務和機器處所及控制站的可能性和能減少易燃蒸氣進入或聚集在有點燃源的處所或區域的可能性。貨艙透氣系統應佈置成能防止水進入貨艙；同時透氣口應使被排放的蒸氣以不受阻氣流形式向上輸送。

8.2.2 透氣系統應連接到每個貨艙的頂部，貨物通風管系應儘可能在所有正常的橫傾和縱傾的營運條件下自排回到貨艙裏。如果必需排空在任何壓力/真空閥高度之上的透氣系統，則應配置蓋式或塞式排放旋塞。

8.2.3 應採取措施確保任何液艙的液壓頭不超過該液艙的設計壓頭。為此目的，可以接受適當的高位報警器、溢流控制系統或調節閥配以儀錶計量和貨艙充注程序。當限制貨艙過壓裝置包括自動關閉閥時，該閥應符合 15.19 的適當規定。

8.2.4 貨艙透氣系統的設計和操作應保證在裝卸期間貨艙內產生的壓力和真空都不會超過貨艙的設計參數。在確定貨艙透氣系統尺寸時應考慮下述主要因素：

- .1 設計的裝卸速度；
- .2 裝貨期間氣體放出：以至少 1.25 的系數乘以最大裝貨速度計及這一因素；
- .3 貨物蒸氣混合物的密度；
- .4 透氣管、三通閥和配件中壓力的喪失；
- .5 降壓裝置的壓力/真空設定。

8.2.5 透氣管系如與以抗腐蝕材料製作的貨艙相連接，或者與按本規則要求加有襯料或塗層以裝載特殊貨物的貨艙相連接，則透氣管系也要同樣加有襯料或塗層，或者用抗腐蝕材料製成。

8.2.6 應向船長提供與透氣系統一致的每個或每組貨艙的最大允許裝卸速度。

### 8.3 貨艙透氣系統的類型

8.3.1 開式貨艙透氣系統係指在正常操作期間，除磨擦損失外，對貨物蒸氣進出貨艙的自由流動，無任何限制的系統。開式透氣系統可以由每個貨艙的各別透氣管構成或在充分考慮到貨物分隔的情況下此種各別透氣管可組合成一個或多個公用集管。但在任何情況下，在各別透氣管上或集管上均不應設關閉閥。

8.3.2 控制式貨艙透氣系統係指在每艙均設有用以限制艙中壓力或真空的壓力和真空洩放閥或壓力/真空閥的系統。控制式貨艙透氣系統可由每艙的獨立透氣管構成或在充分考慮到貨物分隔的情況下，由在壓力一側可組合成一個或幾個集管的獨立透氣管組成。在任何情況下，不應在壓力或真空洩放閥或壓力/真空閥的上面或下面

裝設關閉閥。但在某些操作條件下，可採取措施避開壓力閥或真空閥或壓力/真空閥，但要保持符合 8.3.5 的要求；並且要有一個適當的指示器指明是否避開了該閥門。

### 8.3.3 控制式貨艙透氣系統的透氣出口的位置應佈置成：

- .1 在露天甲板上的高度不小於 6 米，或如安裝在升高走道的 4 米範圍內，則在升高走道之上的高度不小於 6 米；
- .2 與居住、服務和機器處所的最近空氣進口或開口和火源的水平距離至少為 10 米。

8.3.4 8.3.3.1 所述透氣口在甲板或升高走道之上的高度可視情減低到 3 米，但要裝設型式經主管機關認可的高速透氣閥將蒸氣/空氣混合物的無阻噴氣以至少 30 米/秒的出口速度排向上方。

8.3.5 用於閃點不超過 60°C（閉杯試驗）的貨物的貨艙上所裝的控制式貨透氣系統應裝有防止火焰進入貨艙的裝置。該裝置的設計、測試和定位應符合主管機關的要求，該要求至少應包括本組織通過的標準。\*

8.3.6 在設計透氣系統和選擇放入貨艙透氣系統的防止火焰進入裝置時，應充分注意到這些系統和配件被阻塞的可能性，如貨物蒸汽凍結、聚合體積累、大氣中的塵土或在惡劣氣候條件時的結冰。對此應指出滅火器和防火網是最易於阻塞的。應採取措施視情使該系統和配件能得到檢查、操作上的檢查、清潔或更新。

---

\* 參照經修訂的液貨船防止火焰進入貨艙裝置的設計、測試和定位標準（MSC/Circ.373/Rev.1 號文件）。



8.3.7 在 8.3.1 和 8.3.2 中提及的在透氣管系中使用關閉閥應解釋為包括所有其他關斷裝置，包括雙孔盲板和盲板法蘭。

#### 8.4 各別製品的透氣要求

各別製品的透氣要求列在第 17 章表中“g”欄而附加要求列在“o”欄。

#### 8.5 液貨艙除氣\*

8.5.1 用於裝載不允許開式透氣貨物的貨艙的除氣裝置，應把易燃或有毒蒸氣在大氣中的擴散或由於液貨艙中的易燃或有毒蒸氣混合物造成的危害降到最低限度。因此，進行除氣作業時蒸氣起先應通過下列出口排放：

- .1 8.3.3 和 8.3.4 中所規定的透氣口；或
- .2 比液貨艙甲板高度至少高出 2 米的透氣口，在除氣作業期間應保持至少 30 米/秒的垂直排放速度；或
- .3 比液貨艙甲板高度至少高出 2 米的出口，垂直排放速度至少為 20 米/秒，這些出口應以適當裝置保護，以防止火焰通過。

當出口處的易燃蒸氣濃度降至可燃限度下限的 30%時和有毒製品蒸氣濃度對健康沒有重大危害時，可在液貨甲板高度上繼續進行除氣。

---

\* 參照經修訂的設計液貨艙透氣和除氣裝置時需考慮因素（MSC/Circ.450/Rev.1 號文件）和經修訂的液貨船中防止火焰通過液貨艙裝置的設計、測試和定位標準（MSC/Circ.373/Rev.1 號文件）。



8.5.2 8.5.1.2 和 8.5.1.3 中所述出口可以是固定的或可移動的管道。

8.5.3 在按照 8.5.1 設計氣體排除系統時，特別為了達到 8.5.1.2 和 8.5.1.3 所要求的出口速度，應對下列者給予適當注意：

- .1 系統的建造材料；
- .2 達到無氣所需的時間；
- .3 要使用的風扇的氣流特性；
- .4 導管、管系、液貨艙進口和出口造成的壓力損失；
- .5 風扇驅動媒體（例如：水或壓縮空氣）中可達到的壓力；
- .6 承運貨物範圍的貨物蒸氣/空氣混合物密度。

在 11.1.2 現有條文中的幾個詞“苛性碳酸鉀溶液、磷酸或苛性鈉溶液”由下列幾個詞代替：

“非易燃製品（最低要求表的‘i’欄 NF 項）”。

加進新的 11.1.3 款如下：

對僅從事承運閃點高於 60°C 的製品（最低要求表的“i”欄“yes”項）的船舶，按第 II-2/55.4 條的規定，《安全公約》1983 年修正案第 II-2 章的要求可適用作為以代替本章的規定。

在“第 12 章 – 貨物區域的機械通風”的引言段的現有條文的末尾加上下列句子：

但對 11.1.2 和 11.1.3 規定的製品，除酸和適用 15.17 款的製品外，《安全公約》1983 年修正案的第 II-2/59.3 條可適用以代替本章的規定。

14.2.8.1 的現有條文由下列者取代：

過濾式呼吸保護器是不能接受的；

15.13 的現有條文修正如下：

15.13 由添加劑保護的貨物

15.13.1 第 17 章表中“o”欄所列舉的某些貨物，由於其化學構成特性，在某些化學構成特性，在某些溫度、暴露於空氣或與催化劑接觸的條件下，會發生聚合、分解、氧化或其他化學變化。通過在液體貨物中加入少量化學添加劑或通過控制液貨艙環境可減輕這種趨向。

15.13.2 無改動。

15.13.3 應注意確保對這些貨物作出充分保護以在航行所有時間裏防止貨物發生有害的化學變化。裝載這種貨物的船舶應備有製造廠提供的保護證書，並在航行期間保存在船上，該證書應註明下列事項：

- .1 所用添加劑的名稱和數量；
- .2 添加劑是否依賴氧氣；
- .3 將添加劑加入產品的日期及其有效期；
- .4 確保添加劑有效期的任何溫度界限條件；
- .5 在航行時間超過添加劑有效期時應採取的行動。

15.13.4 使用排除空氣作為防止貨物氧化方法的船舶應符合 9.1.3 的要求。

15.13.5 含有依賴氧氣的添加劑的製品，應在不充惰的情況下（在容積不大於 3,000 米<sup>3</sup>的液艙裏）運輸。這種貨物不應在《安全公約》第 II-2 章要求充惰的液艙裏運輸。

15.13.6 同現有的 15.13.5 一樣。

15.13.7 同現有的 15.13.6 一樣。

15.15 的現有條文由下列詞取代：

“刪除”

在 15.8.29 的現有條文中，在第二句後插入下列詞語：

遙控手動操作應安排為可從貨物區域外、鄰近居住處所隨時可以進入、在受保護區域有火災時能操作的一個合適位置遙控起動噴水系統的供給泵和遙控操作該系統中通常關閉的任何閥門。

增加新的 15.21 如下：

15.21 溫度傳感器

溫度傳感器應用於監視貨泵溫度以探測出由泵的故障造成的過熱。

第 17 章的現有條文由下列者取代：

## 第 17 章

### 最低要求一覽表

僅有污染危害的有毒液體物質的混合物，如根據《73/78 年防污公約》附件 II 第 3（4）條給予臨時評估，則可按照適用於本章中對在其他部分未作規定的有毒液體適當欄目位置的本規則要求承運。

## 註釋

貨品名稱 ( a 欄 )	貨品名稱並不與原先頒發的本規則或《散化規則》所提供的名稱相同（說明見化學品索引）。
聯合國編號 ( b 欄 )	聯合國危險品運輸專家委員會所提議的建議書中所表明的每種貨品的編號。所列的聯合國編號僅供參考。
污染類別 ( c 欄 )	字母 A、B、C 或 D 係指根據《73/78 年防污公約》附件 II 對每種貨品指定的污染類別。 “III”係指該貨品已被評估過並發現不在 A、B、C 或 D 類之內。 括號內的污染類別表明該貨品暫時所分類別和需要新資料來完成其污染危害的評估。在危害評估完成前，使用所指定的污染類別。
危害性 ( d 欄 )	S 係指該貨品由於其安全危害列入本規則； P 係指該貨品由於其污染危害列入本規則； 和 S/P 係指該貨品因為安全和污染的雙重原因列入本規則。
船型 ( e 欄 )	1 = 船型 1 ( 2.1.2 ) 2 = 船型 2 ( 2.1.2 ) 3 = 船型 3 ( 2.1.2 )

液艙類型	1 = 獨立液艙 (4.1.1)
(f 欄)	2 = 整體液艙 (4.1.2)
	G = 重力液艙 (4.1.3)
	P = 壓力液艙 (4.1.4)
液艙透氣	Open (開) : 開式透氣
(g 欄)	Cont (控) : 控制透氣
	SR (閥) : 安全釋放閥
液艙環境控制*	Inert (惰性) : 惰性控制 (9.1.2.1)
(h 欄)	Pad (墊料) : 液體或氣體 (9.1.2.2)
	Dry (乾燥) : 乾燥 (9.1.2.3)
	Vent (通風) : 自然或強制 (9.1.2.4)
電氣設備	T1 至 T6 : 溫度等級**
(i 欄)	IIA、IIB 或 IIC : 設備分類**
	NF : 不燃貨品 (10.1.6)
	Yes : 閃點超過 60°C (閉杯試驗) (10.1.6)
	No : 閃點不超過 60°C (閉杯試驗) (10.1.6)
測量	O : 開敞式測量 (13.1.1.1)
(j 欄)	R : 限制式測量 (13.1.1.2)
	C : 封閉式測量 (13.1.1.3)

	I：間接式測量（13.1.1.3）
蒸氣探測*	F：可燃蒸氣
（k 欄）	T：有害蒸氣
防火	A：抗乙醇泡沫或多用途泡沫
（l 欄）	B：普通泡沫，包括所有非抗乙醇泡沫；其中包括氟化蛋白質和水膜泡沫（AFFF）
	C：噴水
	D：乾化學品***
	No：按本規則無特殊要求
構造材料	N：見 6.2.2
（m 欄）	Z：見 6.2.3
	Y：見 6.2.4
	空白表示對製造材料沒有特別要求。
呼吸和眼睛保護	
（n 欄）	E：見 14.2.8

---

\* “No” 表示無要求。

\*\* 溫度等級和設備分類按國際電工委員會第 79 號出版物的規定（第 1 部分，附錄 D，第 4、8 和 12 部分。空白表示目前無資料）。

\*\*\* 當使用乾化學粉系統時，可能需要一個用於邊緣冷卻的附加水冷系統。這通常是按經修正的《1974 年安全公約》第 II-2/4 條的要求用標準消防主系統提供足夠的數量來進行的。



貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
乙酸		D	S	3	2G	Cont.	No	T1	IIA	No	R	F	A	Y1	E	15.11.2 至 15.11.4, 15.11.6 至 15.11.8, 15.19.6
乙酸酐	1715	D	S	2	2G	Cont.	No	T2	IIA	No	R	F-T	A	Y1	E	15.11.2 至 15.11.4, 15.11.6 至 15.11.8, 15.19.6
丙酮醇	1541	A	S/P	2	2G	Cont.	No	T1	IIA	Yes	C	T	A	Y1	E	15.1, 15.12, 15.17 to 15.19, 16.6
乙腈	1648	III	S	2	2G	Cont.	No	T2	IIA	No	R	F-T	A		No	15.12, 15.19.6
丙烯酸 (50%或以下)	2074	D	S	2	2G	Open	No		NF		C	No	No		No	15.12.3, 15.13, 15.16.1, 15.19.6, 16.6.1
丙烯酸	2218	D	S	3	2G	Cont.	No	T2	IIA	No	R	F-T	A	Y1	No	15.13, 15.19.6, 16.6.1
丙烯腈	1093	B	S/P	2	2G	Cont.	No	T1	IIB	No	C	F-T	A	N3	E	15.12, 15.13, 15.17, 15.19
乙二醇	2205	D	S	3	2G	Cont.	No		IIB	Yes	R	T	A		No	
工業方式生產的草不綠 (90%或 以上)		B	S/P	3	2G	Open	No			Yes	O	No	A,C	Y1	No	15.19.6, 16.2.6, 16.2.9, 16A.2.2
脂肪醇 (C12-C15) 聚 (1-6) 乙 氧基化合物		A	P	2	2G	Open	No			Yes	O	No	A		No	15.19.6
脂肪醇 (C12-C15) 聚 (7-19) 乙氧基化合物		B	P	3	2G	Open	No			Yes	O	No	A		No	15.19.6, 16.2.6
脂肪醇 (C12-C15) 聚 (20+) 乙氧基化合物		C	P	3	2G	Open	No			Yes	O	No	A		No	
脂肪醇 (C6-C17)(仲)聚 (3-6) 乙氧基化合物		A	P	2	2G	Open	No			Yes	O	No	A		No	15.19.6
脂肪醇 (C6-C17)(仲)聚 (7-12) 乙氧基化合物		B	P	3	2G	Open	No			Yes	O	No	A		No	15.19.6, 16.2.6, 16.2.9
鏈烷 (C14-C17) 磺酸, 水中含 60-65%鈉鹽		B	P	3	2G	Open	No		NF		O	No	No		No	16.2.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
烷烴 (C6-C9)		(C)	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
烷芳基聚醚 (C9-C20)		B	P	3	2G	Open	No		Yes	Yes	O	No	A, B		No	15.19.6, 16.2.6
甲苯中的烷基丙烯酸酯- 2-烯基吡啶共聚物		C	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
烷基苯/1,2-二氫化萘/蒽混合物 (C12-C17 合計炭)		A	P	2	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6
烷基 (C3-C4) 苯		A	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
烷基 (C5-C8) 苯		A	P	2	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6
烷基苯磺酸	2584, 2586	C	S/P	3	2G	Open	No		Yes	Yes	O	No	A		No	16.2.7, 16.2.8
烷基苯磺酸, 鈉鹽溶液		C	P	3	2G	Open	No		NF		O	No	No		No	16.2.7 至 16.2.9
烷基 (C7-C9) 硝酸鹽		B	S/P	2	2G	Open	No		Yes		O	No	A, B		No	15.19.6, 15.20, 16.6
丙烯酸	1098	B	S/P	2	2G	Cont.	No	T2	IIB	No	C	F-T	A		E	15.12, 15.17, 15.19
烯丙基氯	1100	B	S/P	2	2G	Cont.	No	T2	IIA	No	C	F-T	A		E	15.12, 15.17, 15.19
氯化鋁(30%或以下)/鹽酸(20% 或以下) 溶液		D	S	3	1G	Cont.	No		NF		R	T	No		E	15.11
2-(2-氨基乙氧基) 乙醇	3055	D	S	3	2G	Open	No		Yes	Yes	O	No	A, D	N2	No	15.19.6
氨基乙醇胺		(D)	S	3	2G	Open	No	T2	IIA	Yes	O	No	A	N1	No	
N-氨基乙醇胺	2815	D	S	3	2G	Cont.	No		Yes	Yes	R	T	A	N2	No	15.19.6
2-氨基-2-甲基-1-丙醇(90%或以 下)		D	S	3	2G	Open	No		Yes	Yes	O	No	A	N1	No	
氨水 (28%或以下)	2672(m)	C	S/P	3	2G	Cont.	No		NF		R	T	A, B, C	N4	E	
碳酸銨溶液 (93%或以下)		D	S	2	1G	Open	No		NF		O	No	No	Y4	No	15.2, 15.11.4, 15.11.6, 15.18, 15.19.6
醇酸銨溶液 (45%或以下)	2683	B	S/P	2	2G	Cont.	No		No	No	C	F-T	A	N1	E	15.12, 15.16.1, 15.17, 15.19, 16.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
硫氨酸鉍 (25%或以下)/硫代硫酸鉍 (20%或以下) 溶液		(C)	P	3	2G	Open	No		NF		O	No	No		No	
硫代硫酸鉍溶液 (60%或以下)		(C)	P	3	2G	Open	No		NF		O	No	No		No	16.2.9
乙酸 (正) 戊酯 (所有異構體)	1104	C	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
苯胺	1547	C	S/P	2	2G	Cont.	No	TI	IIA	Yes	C	T	A		No	15.12, 15.17, 15.19
航空煙化汽油 (C8 鏈烷烴和異鏈烷烴沸點 95-120°C) (bb)		(C)	P	3	2G	Cont.	No			No	R	F	B		No	15.19.6
含苯 10%或以上的苯和苯混合物*	1114 (t)	C	S/P	3	2G	Cont.	No	TI	IIA	No	C	F-T	A, B		No	15.12.1, 15.17, 15.19.6, 16.2.9
苯磺酰氯	2225	D	S	3	2G	Cont.	No			Yes	R	T	A, D	NI	No	15.19.6
乙酸苄酯		C	P	3	2G	Open	No			Yes	O	No	A		No	
苯甲醇		C	P	3	2G	Open	No			Yes	O	No	A		No	
苯基氯	1738	B	S/P	2	2G	Cont.	No	TI	IIA	Yes	C	T	A, B		E	15.12, 15.13, 15.17, 15.19
丁烯低聚物		B	P	3	2G	Open	No			Yes	O	No	A		No	15.19.6
醋酸丁 (所有異構體)	1123	C	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
丙烯酸丁酯 (所有異構體)	2348	B	S/P	2	2G	Cont.	No	T2	IIIB	No	R	F-T	A		No	15.13, 15.19.6, 16.6.1, 16.6.2
丁胺 (所有異構體)	1125, 1214	C	S/P	2	2G	Cont.	No			No	R	F-T	A	NI	E	15.12, 15.17, 15.19.6
丁苯 (所有異構體)	2709	A	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
鄰苯二甲酸丁基苄基酯		A	P	2	2G	Open	No			Yes	O	No	A		No	15.19.6
丁酸丁酯 (所有異構體)		B	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
丁基/蔡基/十六烷基/二十烷基異丁烯酸混合物		D	S	3	2G	Cont.	No			Yes	R	No	A, D		No	15.13, 16.6.1, 16.6.2
1, 2-環氧丁烷	3022	C	S/P	3	2G	Cont.	Inert	T2	IIIB	No	R	F	A, C	Z	No	15.8.1 至 .7, .12, .13, .16 至 .19, .21, .25, .27, .29,

\* 對不含其他安全危害成分而其污染類別為 C 或以下的混合物。

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
(正) 丁醚	1149	C	S/P	3	2G	Cont.	Inert	T4	IIB	No	R	F-T	A	No	No	15.19.6
甲基丙烯酸丁酯		D	S	3	2G	Cont.	No		IIA	No	R	F-T	A, D	No	No	15.4.6, 15.12, 15.19.6
丙酸正丁脂	1914	C	P	3	2G	Cont.	No			No	R	F	A	No	No	15.13, 15.19.6, 16.6.1, 16.6.2
丁醛 (所有異構體)	1129	C	S/P	3	2G	Cont.	No	T3	IIA	No	R	F-T	A	No	No	15.19.6
丁酸	2820	D	S	3	2G	Cont.	No		Yes	Yes	R	No	A	Y1	No	15.11.2 至 15.11.4, 15.11.6 to 15.11.8
烷基鈣 (C9) 硫化醇/聚硫磷 磷混合物		A	P	2	2G	Open	No		Yes	Yes	O	No	A, B	No	No	15.19.6
次氯酸鈣溶液 (15%或以下)		C	S/P	3	2G	Cont.	No		NF		R	No	No	N5	No	15.16.1
次氯酸鈣溶液 (15%以上)		B	S/P	3	2G	Cont.	No		NF		R	No	No	N5	No	15.16.1, 15.19.6
長鏈烷基水楊酸鈣 (C13+)		C	P	3	2G	Open	No		Yes	Yes	O	No	A, B	No	No	16.2.7, 16.2.8
樟腦油		B	S/P	2	2G	Cont.	No		IIA	No	R	F	A, B	No	No	15.19.6
酚油		A	S/P	2	2G	Cont.	No		Yes	Yes	C	F-T	A	No	No	15.12, 15.19
二硫化碳	1131	B	S/P	2	1G	Cont.	Pad+	T6	IIC	No	C	F-T	C	E	E	15.3, 15.12, 15.19
四氯化碳	1846	B	S/P	3	2G	Cont.	No		NF		C	T	No	Z	E	15.12, 15.17, 15.19.6
賈如樹果殼油 (未處理)		D	S	3	2G	Cont.	No		Yes	Yes	R	T	A, B	No	No	
異丁烯酸十六烷基/二十烷基混 合物		III	S	3	2G	Open	No		Yes	Yes	O	No	A, D	No	No	15.13, 16.6.1, 16.6.2
氯乙酸 (80%或以下)	1750	C	S/P	2	2G	Cont.	No		NF		C	No	No	Y5	No	15.11.2, 15.11.4, 15.11.6 至 15.11.8, 15.12.3, 15.19, 16.2.9
氯化石臘 (C10-C13)		A	P	1	2G	Open	No		Yes	Yes	O	No	A	No	No	15.19
氯苯	1134	B	S/P	3	2G	Cont.	No	T1	IIA	No	R	F-T	A, B	No	No	15.19.6
氯仿	1888	B	S/P	3	2G	Cont.	No		NF		R	T	No	No	E	15.12, 15.19.6
粗製氯乙醇		(D)	S	2	2G	Cont.	No		IIA	No	C	F-T	A	No	No	15.12, 15.19
4-氯-2-甲基苯氧基酸, 二甲胺鹽		(C)	P	3	2G	Open	No		NF		O	No	No	NI	No	

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
溶液																
鄰-氯硝基苯	1578	B	S/P	2	2G	Cont.	No		Yes	Yes	C	T	A, B,D		No	15.12, 15.17 至 15.19, 16.2.6, 16.2.9, 16A.2.2
2-或3-氯丙酸	2511 (n)	(C)	S/P	3	2G	Open	No		Yes	Yes	O	No	A	Y1	No	15.11.2 至 15.11.4, 15.11.6 至 15.11.8, 16.2.7 至 16.2.9
氯磺酸	1754	C	S/P	1	2G	Cont.	No	NF			C	T	No		E	15.11.2 至 15.11.8, 15.12, 15.16.2, 15.19
間-氯甲苯	2238	B	S/P	3	2G	Cont.	No		No	No	R	F-T	A, B		No	15.19.6
鄰-氯甲苯	2238	A	S/P	3	2G	Cont.	No		No	No	R	F-T	A, B		No	15.19.6
對-氯甲苯	2238	B	S/P	2	2G	Cont.	No		No	No	R	F-T	A, B		No	15.19.6, 16.2.9
氯甲苯 (混有異構體)	2238	A	S/P	2	2G	Cont.	No		No	No	R	F-T	A, B		No	15.19.6
煤焦油		A	S/P	2	2G	Cont.	No	T2	IIA	Yes	R	No	B,D		No	15.19.6
煤焦油石腦油溶劑		B	S/P	3	2G	Cont.	No	T3	IIA	No	R	F-T	A, D		No	15.19.6
煤焦油瀝青 (溶化的)		D	S	3	1G	Cont.	No	T2	IIA	Yes	R	No	B, D		No	15.19.6
在石腦油溶劑中的環烷酸鈉		A	S/P	2	2G	Cont.	No		No	No	R	F-T	A, D		No	15.19.6
椰子油脂脂肪酸		C	P	3	2G	Open	No		Yes	Yes	O	No	A		No	16.2.7 至 16.2.9
雜酚油 (煤焦油)		A	S/P	2	2G	Open	No	T2	IIA	Yes	O	No	A, D		No	15.19.6
雜酚油 (木材)		A	S/P	2	2G	Open	No	T2	IIA	Yes	O	No	A, D		No	15.19.6
甲酚 (所有異構體)	2076	A	S/P	2	2G	Open	No	T1	IIA	Yes	O	No	A, B		No	15.19.6
甲酚基酸, 脫酚		A	S/P	2	2G	Open	No		Yes	Yes	O	No	A, B		No	15.19.6
甲酚基酸, 鈉鹽溶液		A	S/P	2	2G	Open	No		Yes	Yes	O	No	No	N8	No	15.19.6
巴豆醛	1143	A	S/P	2	2G	Cont.	No	T3	IIIB	No	R	F-T	A		E	15.12, 15.16.1, 15.17, 15.19.6
1, 5, 9-環十二碳三烯		A	S/P	1	2G	Cont.	No		Yes	Yes	R	T	A	N2	No	15.13, 15.19, 16.6.1, 16.6.2
環庚烷 (bb)	2241	(C)	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
環己烷	1145	(C)	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6, 16.2.9
環己酮	1915	D	S	3	2G	Cont.	No	T2	IIA	No	R	F-T	A	N5	No	15.19.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I DASH	I DASH3	J	K	L	M	N	O
環己酮，環己醇混合物		D	S	3	2G	Cont.	No		Yes		R	F-T	A	N5	No	
乙酸環己酯	2243	(B)	P	3	2G	Cont.	No		No		R	F	A		No	15.19.6
環己胺	2357	C	S/P	3	2G	Cont.	No	T3	IIA		R	F-T	A, C	N1	No	15.19.6
1,3-環戊二烯二聚物 (溶化)		B	P	2	2G	Cont.	No		No		R	F	A		No	15.19.6, 16.2.6, 16.2.9, 16A.2.2
環戊烷 (bb)	1146	(C)	P	3	2G	Cont.	No		No		R	F	A		No	15.19.6
環戊烯	2246	(B)	P	3	2G	Cont.	No		No		R	F	A		No	15.19.6
對-嫩花煙 (bb)	2046	C	P	3	2G	Cont.	No		No		R	F	A		No	15.19.6
癸酸		C	P	3	2G	Open	No		Yes		O	No	A		No	16.2.7 至 16.2.9
癸烯		B	P	3	2G	Cont.	No		No		R	F	A		No	15.19.6
乙酸葵酯		(B)	P	3	2G	Open	No		Yes		O	No	A		No	15.19.6
丙烯酸葵酯		A	S/P	2	2G	Open	No	T3	IIA		O	No	A,	N2	No	15.13, 15.19.6, 16.6.1, 16.6.2
癸醇 (所有異構體)		B	P	3	2G	Open	No		Yes		O	No	A		No	15.19.6, 16.2.9 (s)
葵基氧化四氫噁吩二氧化物		A	S/P	2	2G	Cont.	No		Yes		R	T	A		No	15.19.6
二丁胺		C	S/P	3	2G	Cont.	No	T2	IIA		R	F-T	A,	N4	No	15.19.6
二丁基磷酸氫鹽		B	P	3	2G	Open	No		No		O	No	A		No	15.19.6, 16.2.6
鄰苯二甲酸二丁酯		A	P	2	2G	Open	No		Yes		O	No	A		No	15.19.6
二氯苯 (所有異構體)		B	S/P	2	2G	Cont.	No	T1	IIA		R	T	A,	N5	No	15.19.6, 16.2.6 (x), 16.2.9 (y), 16A.2.2 (z)
1,1-二氯乙烷	2362	D	S	3	2G	Cont.	No	T2	IIA		R	F-T	A		E	15.19.6
二氯乙醚	1916	B	S/P	2	2G	Cont.	No	T2	IIA		R	F-T	A	N5	No	15.19.6
1,6-二氯己烷		B	S/P	2	2G	Cont.	No		No		R	T	A, B		No	15.19.6
2,2-二氯異丙醚	2490	C	S/P	2	2G	Cont.	No		Yes		R	T	A,	N5	No	15.12, 15.17, 15.19
二氯甲烷	1593	D	S	3	2G	Cont.	No	T1	IIA		R	T	No		No	



貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
2, 4-二氯苯酚	2021	A	S/P	2	2G	Cont.	Dry		Yes		R	T	A	N1	No	15.19.6
2, 4-二氯苯氧基乙酸, 二乙醇鹽溶液		A	S/P	3	2G	Open	No		NF		O	No	No	N1	No	15.19.6
2, 4-二氯苯氧基乙酸, 二乙醇鹽溶液 (70%或以下)		A	S/P	3	2G	Open	No		NF		O	No	No	N1	No	15.19.6
2, 4-二氯苯氧基乙酸, 三異丙醇鹽溶液		A	S/P	3	2G	Open	No		NF		O	No	No	N1	No	15.19.6
1, 1-二氯丙烷	1279	C	S/P	2	2G	Cont.	No	T1	IIA	No	R	F-T	A, B	Z	No	15.12, 15.19.6
1, 2-二氯丙烷		C	S/P	2	2G	Cont.	No	T1	IIA	No	R	F-T	A, B	Z	No	15.12, 15.19.6
1, 3-二氯丙烷	2047	D	S	2	2G	Cont.	No	T2	IIA	No	R	F-T	A, B		No	15.12, 15.19.6
1, 3-二氯丙烯		B	S/P	2	2G	Cont.	No		IIA	No	C	F-T	A, B		E	15.12, 15.17 至 15.19
二氯丙烯/二氯丙烷混合物		B	S/P	2	2G	Cont.	No			No	C	F-T	A, B, D		E	15.12, 15.17 至 15.19
2, 2-二氯丙酸		D	S	3	2G	Cont.	Dry		Yes	Yes	R	No	A	Y5	No	15.11.2, 15.11.4, 15.11.6 至 15.11.8
二羥乙基胺		D	S	3	2G	Open	No	T1	IIA	Yes	O	No	A	N2	No	
二乙胺	1154	C	S/P	3	2G	Cont.	No	T2	IIA	No	R	F-T	A	N1	E	15.12, 15.19.6
二乙胺基乙醇	2686	C	S/P	3	2G	Cont.	No	T2	IIA	No	R	F-T	A, C	N1	No	15.19.6
2, 6-二乙苯胺		C	S/P	3	2G	Open	No		Yes	Yes	O	No	B, C, D	N4	No	15.19.6, 16.2.9
二乙苯	2049	A	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
二乙烯三胺	2079	D	S	3	2G	Open	No	T2	IIA	Yes	O	No	A	N2	No	
二乙醚	1155	III	S	2	1G	Cont.	Inert	T4	IIB	No	C	F-T	A	N7	E	15.4, 15.14, 15.19
二(2-乙基己基)磷酸	1902	C	S/P	3	2G	Open	No		Yes	Yes	O	No	A, D	N2	No	
鄰苯二甲酸二乙酯		C	P	3	2G	Open	No		Yes	Yes	O	No	A		No	
硫酸二乙酯	1594	(B)	S/P	2	2G	Cont.	No		Yes	Yes	C	T	A	N3	No	15.19.6
雙酚 A 二環氧甘油醚		B	P	3	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6, 16.2.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
雙酚 F 二環氧甘油醚		B	P	3	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6, 16.2.6
二正-己基乙二酸酯		B	P	3	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6
二異丁胺	2361	(C)	S/P	2	2G	Cont.	No		No	No	R	F-T	A', C,D	N1	No	15.12.3, 15.19.6
二異丁烯	2050	B	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
鄰苯二甲酸二異丁酯		B	P	3	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6, 16.2.6
二異丙醇胺		C	S/P	3	2G	Open	No	T2	Yes	Yes	O	No	A	N2	No	16.2.7 至 16.2.9
二異丙胺	1158	C	S/P	2	2G	Cont.	No	T2	No	No	C	F-T	A	N2	E	15.12, 15.19
二異丙苯 (所有異構體)		A	P	2	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6
N, N-二甲基乙酰胺溶液 (40%或以下)	n	D	S	3	2G	Cont.	No		Yes	Yes	R	T	B	N4	No	15.12.1, 15.17
二甲基乙二酸		B	P	3	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6, 16.2.9
二甲基胺溶液 (45%或以下)	r 1160	C	S/P	3	2G	Cont.	No	T2	No	No	R	F-T	A', C,D	N1	E	15.12, 15.19.6
二甲基胺溶液 (45%以上但不超過 55%)	1160	C	S/P	2	2G	Cont.	No		No	No	C	F-T	A', C,D	N1	E	15.12, 15.17, 15.19
二甲基胺溶液 (55%以上但不超過 65%)	1160	C	S/P	2	2G	Cont.	No		No	No	C	F-T	A', C,D	N1	E	15.12, 15.14, 15.17, 15.19
N, N-二甲基環己胺	2264	C	S/P	2	2G	Cont.	No		No	No	R	F-T	A,C	N1	No	15.12, 15.17, 15.19.6
二甲基醇胺	2051	D	S	3	2G	Cont.	No	T3	No	No	R	F-T	A,D	N2	No	15.19.6
二甲基甲酰胺	2265	D	S	3	2G	Cont.	No	T2	No	No	R	F-T	A,D		No	15.19.6
二甲基戊二酸		C	P	3	2G	Open	No		Yes	Yes	O	No	A		No	
二甲基亞磷酸氫鹽		(B)	S/P	3	2G	Cont.	No		Yes	Yes	R	T	A,D		No	15.12.1
二甲基辛酸		(C)	P	3	2G	Open	No		Yes	Yes	O	No	A		No	16.2.8, 16.2.9
鄰苯二甲酸二甲酯		C	P	3	2G	Open	No		Yes	Yes	O	No	A		No	
二甲基琥珀酸酯		C	P	3	2G	Open	No		Yes	Yes	O	No	A		No	16.2.9
二磷基甲苯 (溶融)	1600	A	S/P	2	2G	Cont.	No		Yes	Yes	C	T	A		No	15.12, 15.17, 15.19, 15.21

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
1, 4-二噁烷	1165	D	S	2	2G	Cont.	No	T2	No	No	C	F-T	A	No	No	15.12, 15.19
二聚戊烯	2052	C	P	3	2G	Cont.	No			No	R	F	A	No	No	15.19.6
聯苯		A	P	1	2G	Open	No			Yes	O	No	B	No	No	15.19
二苯胺, 反應製品和 2, 2, 4- 三甲基		(A)	S/P	1	2G	Open	No			Yes	O	No	A	No	No	15.19
戊烯二苯胺, 烷基化工的		A	P	2	2G	Open	No			Yes	O	No	A	No	No	15.19.6
聯苯/二苯醚混合物		A	P	1	2G	Open	No			Yes	O	No	B	No	No	15.19
二苯醚		A	P	3	2G	Open	No			Yes	O	No	A	No	No	15.19.6
二苯醚/二苯基二苯醚混合物		A	P	3	2G	Open	No			Yes	O	No	A	No	No	15.19.6
二苯甲烷	2489	(B)	S/P	2	2G	Cont.	Dry			Yes (b)	C	T(b)	A,	N5	No	15.12, 15.16.2, 15.17,
二異氰酸酯													B, C			15.19.6, 16.2.6, 16.2.9, 16A.2.2
二苯丙烷-表氯醇樹脂		B	P	3	2G	Open	No			Yes	O	No	A	No	No	15.19.6, 16.2.6
二-正-丙胺	2383	C	S/P	3	2G	Cont.	No			No	R	F-T	A	N2	No	15.12.3, 15.19.6
十二(碳)烯(所有異構體)		(B)	P	3	2G	Open	No			Yes	O	No	A	No	No	15.19.6
十二(烷)醇		B	P	3	2G	Open	No			Yes	O	No	A	No	No	15.19.6, 16.2.6, 16.2.9, 16A.2.2
十二(烷)胺/十四(烷)胺混 合物		A	S/P	2	2G	Cont.	No			Yes	R	T	A,	N2	No	15.19.6
十二烷基二甲胺十四烷基二甲 胺混合物		A	S/P	2	2G	Open	No			Yes	O	No	B,	N4	No	15.19.6
十二烷聯苯醚二磺酸鹽溶液		A	S/P	2	2G	Open	No				O	No	No		No	15.19.6
十二烷異丁烯酸		III	S	3	2G	Open	No		NF	Yes	O	No	A	No	No	15.13
十二烷基/十五烷基混合物		III	S	3	2G	Open	No			Yes	O	No	A, D	No	No	15.13, 16.6.1, 16.6.2
十二烷基苯酚		A	P	1	2G	Open	No			Yes	O	No	A	No	No	15.19
鑽井鹽水(含有鉍鹽)		B	P	3	2G	Open	No			Yes	O	No	No	No	No	15.19.6

聯合國 編號	貨品名稱	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
2023	環氧丙烷	A	S/P	2	2G	Cont.	No	No	IIB	No	C	F-T	A		E	15.12, 15.17, 15.19
2491	乙醇胺	D	S	3	2G	Open	No	T2	IIA	Yes	O	F-T	A	N2	No	
1172	2-乙氧基醋酸乙酯	C	P	3	2G	Cont.	No	No	No	No	R	F	A		No	15.19.6
1917	丙烯酸乙酯	A	S/P	2	2G	Cont.	No	T2	IIB	No	R	F-T	A		E	15.13, 15.19.6, 16.6.1, 16.6.2
1036	乙胺	(C)	S/P	2	1G	Cont.	No	T2	IIA	No	C	F-T	C, D	N2	E	15.12, 15.14, 15.19.6
2270	乙胺溶液 (72%或以下)	(C)	S/P	2	2G	Cont.	No	No	No	No	C	F-T	A, C	N1	E	15.12, 15.14, 15.17, 15.19
2271	乙基戊基甲酮	C	P	3	2G	Cont.	No	No	No	No	R	F	A		No	15.19.6
1175	乙苯	B	P	3	2G	Cont.	No	No	No	No	R	F	A		No	15.19.6
	N-乙基丁胺	(C)	S/P	3	2G	Cont.	No	No	No	No	R	F-T	A	N1	No	15.12.3, 15.19.6
1180	丁酸乙酯	C	P	3	2G	Cont.	No	No	No	No	R	F	A		No	15.19.6
	乙基環己烷 (bb)	(C)	P	3	2G	Cont.	No	No	No	No	R	F	A		No	15.19.6
	N-乙基環己烷	D	S	3	2G	Cont.	No	No	No	No	R	F-T	A	N1	No	15.19.6
1135	氯乙醇	C	S/P	2	2G	Cont.	No	T2	IIA	No	C	F-T	A, D		E	15.12, 15.17, 15.19
	乙撐氧醇	(D)	S	3	2G	Open	No	No	IIB	Yes	O	No	A		No	
1604	乙二胺	C	S/P	2	2G	Cont.	No	T2	IIA	No	R	F-T	A	N2	No	15.19.6, 16.2.9
1605	二溴化乙烯	B	S/P	2	2G	Cont.	No	No	NF		C	T	No		E	15.12, 15.19.6, 16.2.9
1184	二氯化乙烯	B	S/P	2	2G	Cont.	No	T2	IIA	No	R	F-T	A, B	N4	No	15.19
	乙二醇丁酸酯	(C)	P	3	2G	Open	No	No	No	Yes	O	No	A		No	
	乙二醇二乙酸酯	C	P	3	2G	Open	No	No	No	Yes	O	No	A		No	
	乙二醇甲酸酯	C	P	3	2G	Open	No	No	No	Yes	O	No	A		No	
	乙二醇單烷基醚	D	S	3	2G	Cont.	No	No	No	No	R	F	A		No	15.19.6
2983	環氧乙烷環氧丙烷混合物其中 環氧乙烷按重量計含量不超過 30%	C	S/P	2	1G	Cont.	Inert	T2	IIB	No	C	F-T	A, C		No	15.8, 15.12, 15.14, 15.19
	乙基-3-乙氧基丙酸	C	P	3	2G	Cont.	No	No	No	No	R	No	A		No	15.19.6
	丙烯酸 2-乙基乙酯	B	S/P	3	2G	Open	No	T3	IIB	Yes	O	No	A		No	15.13, 15.19.6, 16.6.1, 16.6.2
2276	2-乙基己胺	B	S/P	2	2G	Cont.	No	No	No	No	R	F-T	A	N2	No	15.12, 15.19.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I DASH	I DASH3	J	K	L	M	N	O
亞乙基降冰片烯		B	S/P	3	2G	Cont.	No		No	No	R	F-T	A, D	N4	No	15.12.1, 15.16.1, 15.19.6
甲基丙烯酸乙酯	2277	(D)	S	3	2G	Cont.	No	T2	IIA	No	R	F-T	A, D		No	15.13, 15.19.6, 16.6.1, 16.6.2
鄰-乙基苯酚		(A)	S/P	3	2G	Open	No	T1	IIA	Yes	O	No	B		No	15.19.6
2-乙基-3-丙基丙烯酸		A	S/P	3	2G	Cont.	No		IIA	No	R	F-T	A		No	15.19.6
乙基甲苯		(B)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
氯化鐵溶液	2582	C	S/P	3	2G	Open	No		NF		O	No	No		No	15.11, 15.19.6, 16.2.9
硝酸鐵/硝酸溶液		C	S/P	2	2G	Cont.	No		NF		R	T	No		E	15.11, 15.19
氟矽酸 (20-30%) 水溶液	1778	C	S/P	3	1G	Cont.	No		NF		R	T	No		E	15.11
甲醛溶液 (45%或以下)	1198 (d)	C	S/P	3	2G	Cont.	No	T2	IIB	No	R	F-T	A		E	15.16.1, 15.19.6, 16.2.9
甲酸	2209	D	S	3	2G	Cont.	No	T1	IIA	No	R	T(v)	A	Y2	E	15.11.2 至 15.11.4, 15.11.6 至 15.11.8, 15.19.6
松香富馬酸加成物, 水分散 糖醛		B	P	3	2G	Open	No			Yes	O	No	No		No	15.19.6, 16.2.6
糠醇	1199	C	S/P	3	2G	Cont.	No	T2	IIB	No	R	F-T	A		No	15.16.1, 15.19.6
戊二醛溶液 (50%或以下)	2874	C	P	3	2G	Open	No			Yes	O	No	A		No	
C10 三烷基醋酸縮水甘油酯		D	S	3	2G	Open	No		NF		O	No	No		No	15.16.1
庚烷 (所有異構體) (bb)	1206	B	P	3	2G	Open	No			Yes	O	No	A		No	15.19.6
庚醇 (所有異構體) (q)		(C)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
庚烯 (所有異構體) (bb)		C	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
醋酸庚酯		(B)	P	3	2G	Open	No			No	R	F	A		No	15.19.6
乙撐二胺溶液	1783	C	S/P	3	2G	Cont.	No			Yes	R	T	A	N2	No	15.19.6, 16.2.9
環六甲亞胺	2493	C	S/P	2	2G	Cont.	No			Yes	R	F-T	A, C	N1	No	15.19.6
己烷 (所有異構體) (bb)	1208	(C)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
己烯 (所有異構體) (bb)		(C)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
醋酸己酯	1233	B	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	L DASH	L DASH3	J	K	L	M	N	O
鹽酸	1789	D	S	3	1G	Cont.	No	No	NF		R	T	No		E	15.11
過氧化氫溶液 (8%以上但不超過 60%)	2014,	C	S/P	3	2G	Cont.	No	No	NF		C	No	No		No	15.5.14 至 15.5.26, 15.18,
過氧化氫溶液 (60%以上但不超 過 70%)	2984	C	S/P	2	2G	Cont.	No	No	NF		C	No	No		No	15.19.6
2-羥乙基丙烯酸酯	2015	C	S/P	2	2G	Cont.	No	No	NF		C	No	No		No	15.5.1 至 15.5.13, 15.19.6
2-羥基-4-(甲硫基)丁酸		B	S/P	2	2G	Cont.	No	No	Yes	Yes	C	T	A		No	15.12, 15.13, 15.19.6, 16.6.1, 16.6.2
異佛爾酮二胺	2289	C	P	3	2G	Open	No	No	Yes	Yes	O	No	A		No	16.2.7, 16.2.8
異佛爾酮二異氰酸酯	2290	D	S	3	2G	Cont.	No	No	Yes	Yes	R	T	A	N2	No	
		B	S/P	2	2G	Cont.	Dry	Dry	Yes	Yes	C	T	A,	N5	No	15.12, 15.16.2, 15.17, 15.19.6
													B, D			
異戊二烯	1218	C	S/P	3	2G	Cont.	No	T3	No	No	R	F	B		No	15.13, 15.14, 15.19.6, 16.6.1, 16.6.2
異丙醇胺		C	S/P	3	2G	Open	No	T2	Yes	Yes	O	F-T	A	N2	No	16.2.8, 16.2.9
異丙胺	1221	C	S/P	2	2G	Cont.	No	T2	No	No	C	F-T	C, D	N2	E	15.12, 15.14, 15.19
異丙基環己烷		(C)	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6, 16.2.7, 16.2.8
異丙醚	1159	D	S	3	2G	Cont.	Inert		No	No	R	F	A		No	15.4.6, 15.13.3, 15.19.6
乳腓溶液 (80%或以下)		B	S/P	2	1G	Cont.	No		Yes	Yes	C	T	A,	Y1	E	15.1, 15.12, 15.17 至 15.19, 16.2.6, 16.6
													C, D			
十二(烷)酸		B	P	3	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6, 16.2.6, 16.2.9, 16A.2.2
液體化學廢物		A	S/P	2	2G	Cont.	No		No	No	C	F-T	A		E	15.12, 15.19.6, 20.5.1
長鏈烷芳基聚醚 (C11-C20)		C	P	3	2G	Open	No		Yes	Yes	O	No	A, B		No	16.2.7, 16.2.8
烷基苯 (C2-C4) 中長鏈聚醚胺		C	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6, 16.2.7, 16.2.8
芳族溶劑中長鏈聚醚胺		C	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6, 16.2.7, 16.2.8
長鏈烷基水楊酸鎂 (C11+)		C	P	3	2G	Open	No		Yes	Yes	O	No	A, B		No	16.2.7, 16.2.8
順丁烯二酐	2215	D	S	3	2G	Cont.	No		Yes	Yes	R	No	A		No	



貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
巯基苯並噻唑 鈉鹽溶液		B	S/P	3	2G	Open	No	No	NF	No	O	No	No	N1	No	15.19.6, 16.2.9
異亞丙基丙酮	1229	D	S	3	2G	Cont.	No	T2	IIIB	No	R	F-T	A		No	15.19.6
變位鈉溶液		A	S/P	2	2G	Open	No		NF		O	No	No	N1	No	15.19.6
甲基丙烯酸	2531	D	S	3	2G	Cont.	No			Yes	R	T	A	Y1	No	15.13, 16.6.1
二氯化乙烯中的甲基丙烯酸		B	S/P	2	2G	Cont.	No	T2	IIA	No	R	F-T	A, B	N4	No	15.19, 16.2.6
甲基丙烯腈	3079	D	S	2	2G	Cont.	No			No	C	F-T	A	N4	E	15.12, 15.13, 15.17, 15.19
																, Z
丙烯酸甲酯	1919	B	S/P	2	2G	Cont.	No	T1	IIIB	No	R	F-T	A		E	15.13, 15.19.6, 16.6.1, 16.6.2
甲胺溶液 (42%或以下)	1235	C	S/P	2	2G	Cont.	No			No	C	F-T	A,	N1	E	15.12, 15.17, 15.19
																C, D
乙酸甲基戊酯	1233	(C)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
甲基戊醇	2053	(C)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
丁酸甲酯	1237	(C)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
甲基環己烷	2296	(C)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
甲基環戊二烯二聚物		(B)	P	3	2G	Cont.	No			No	R	F	B		No	15.19.6
甲基二羥乙基胺		D	S	3	2G	Open	No			Yes	O	No	A	N2	No	
2-甲基-6-乙基苯胺		C	S/P	3	2G	Open	No			Yes	O	No	A, D		No	
2-甲基-5-乙基吡啶	2300	(B)	S/P	3	2G	Open	No		IIA	Yes	O	No	A, D	N4	No	15.19.6
甲酸甲酯	1243	D	S	2	2G	Cont.	No			No	R	F-T	A		E	15.12, 15.14, 15.19
甲基庚基酮		B	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
2-甲基-2-羥基-3-丁炔		III	S	3	2G	Cont.	No		IIA	No	R	F-T	A,	N6	No	15.19.6
																B, D
甲基丙烯酸甲酯	1247	D	S	2	2G	Cont.	No	T2	IIA	No	R	F-T	A		No	15.13, 15.19.6, 16.6.1, 16.6.2
甲基奈 (溶融)		A	S/P	2	2G	Cont.	No			Yes	R	No	A, D		No	15.19.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I DASH	I DASH3	J	K	L	M	N	O
2-甲基吡啶	2313	D	S	2	2G	Cont.	No	No	No	No	C	F	A	N4	No	15.12.3, 15.19.6
3-甲基吡啶	2313	C	S/P	2	2G	Cont.	No	No	No	No	C	F	A, C	N4	No	15.12.3, 15.19
4-甲基吡啶	2313	D	S	2	2G	Cont.	No	No	No	No	C	F-T	A	N4	No	15.12.3, 15.19, 16.2.9
水楊酸甲酯	(B)	P	3	2G	Open	No	No	TI	IIB	Yes	O	No	A		No	15.19.6
α-甲基苯乙烯	2303	A	S/P	3	2G	Cont.	No	No	No	No	R	F-T	A, D**		No	15.13, 15.19.6, 16.6.1, 16.6.2
嗎啡	2054	D	S	3	2G	Cont.	No	T2	IIA	No	R	F	A	N2	No	15.19.6
動力燃料抗爆擊化合物(含烷基鉛)	1649	A	S/P	1	1G	Cont.	No	T4	IIA	No	C	F-T	A, C		E	15.6, 15.12, 15.18, 15.19
奈(熔融)	2304	A	S/P	2	2G	Cont.	No	TI	IIA	Yes	R	No	A, D		No	15.19.6
環烷酸		A	P	2	2G	Open	No			Yes	O	No	A		No	15.19.6
新葵酸		C	P	3	2G	Open	No			Yes	O	No	A		No	16.2.8
磷化酸(硫酸和硝酸混合物)	1796	(C)	S/P	2	2G	Cont.	No		NF		C	T	No		E	15.11, 15.16.2, 15.17, 15.19
硝酸(70%以下)	2031	C	S/P	2	2G	Cont.	No		NF		R	T	No		E	15.11, 15.19
硝酸(70%和以上)	2031, 2032 (b)	C	S/P	2	2G	Cont.	No		NF		C	T	No		E	15.11, 15.19
硝基苯	1662	B	S/P	2	2G	Cont.	No	TI	IIA	Yes	C	T	A, D		No	15.12, 15.17 至 15.19, 16.2.9
鄰-硝基苯酚(熔融)	1663	B	S/P	2	2G	Cont.	No			Yes	C	T	A, D		No	15.12, 15.19.6, 16.2.6, 16.2.9, 16A.2.2
1-或2-硝基丙烷	2608	D	S	3	2G	Cont.	No	T2	IIB	No	R	F-T	A		No	15.19.6
硝基丙烷(60%) / 硝基乙烷(40%) 混合物		D	S	3	2G	Cont.	No			No	R	F-T	A	N4	No	15.19.6
鄰-或對-硝基甲苯	1664	B	S/P	2	2G	Cont.	No		IIB	Yes	C	T	A, B		No	15.12, 15.17, 15.19, 16.2.9
王烷(所有異構體)(bb)	1920	(C)	P	3	2G	Cont.	No			No	R	F	B, C		No	15.19.6
王烯(所有異構體)		B	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
王基丁酯	(C)	P	3	2G	Open	No	No			Yes	O	No	A		No	15.19.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_	I_	J	K	L	M	N	O
									DASH	DASH3						
壬醇 (所有異構體)		(C)	P	3	2G	Open	No	No	Yes	Yes	O	No	A	No	No	
壬基苯酚		A	P	2	2G	Open	No	No	Yes	Yes	O	No	A	No	15.19.6	
壬基酚聚氧 (4-12) 乙烷醚		B	P	3	2G	Open	No	No	Yes	Yes	O	No	A	No	15.19.6, 16.2.2.6, 16.2.2.9, 16A.2.2	
															(aa)	
有毒液體, N.F., (1) n.o.s. (品名..., 含有...) S.T.1, A類*		A	P	1	2G	Open	No	No	Yes	Yes	O	No	A	No	15.19	
有毒液體, F, (2) n.o.s. (品名..., 含有...) S.T.1, A類*		A	P	1	2G	Cont.	No	No	No	No	R	F	A	No	15.19	
有毒液體, N.F., (3) n.o.s. (品名..., 含有...) S.T.2, A類*		A	P	2	2G	Open	No	No	Yes	Yes	O	No	A	No	15.19.6	
有毒液體, F, (4) n.o.s. (品名..., 含有...) S.T.2, A類*		A	P	2	2G	Cont.	No	No	No	No	R	F	A	No	15.19.6	
有毒液體, N.F., (5) n.o.s. (品名..., 含有...) S.T.2, B類*		B	P	2	2G	Open	No	No	Yes	Yes	O	No	A	No	15.19.6, [16.2.6, 16.2.9]**	
有毒液體, N.F., (6) n.o.s. (品名..., 含有...) S.T.2, B類*		B	P	2	2G	Open	No	No	Yes	Yes	O	No	A	No	15.19.6, [16.2.6]**, 16.2.9, 16A.2.2	
熔點 15°C+																

\* 如果某一具體 n.o.s. 貨物被確定為屬於船上裝運的這一 n.o.s. 的類別, 則該項, 包括貨物品名和一、二種主要成份, 應在航運文件中予以提供。所用縮略語意為:

N.F.: 超過 60°C 的閃點(閉杯試驗) S.T.: 船型  
F.: 不超過 60°C 的閃點(閉杯試驗) Cat.: 污染類別  
n.o.s.: 未列名的 m.p.: 熔點

\*\* 僅有某些抗酒精泡沫有效。

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I DASH	I DASH3	J	K	L	M	N	O
有毒液體, F, (7) n.o.s. (品名..., 含有...) S.T.2, B類*		B	P	2	2G	Cont.	No	No	No	No	R	F	A	No	No	15.19.6, [16.2.6, 16.2.9]**
有毒液體, F, (8) n.o.s. (品名..., 含有...) S.T.2, B類* 熔點 15°C+		B	P	2	2G	Cont.	No	No	No	No	R	F	A	No	No	15.19.6, [16.2.6]**, 16.2.9, 16A.2.2
有毒液體, N.F, (9) n.o.s. (品名..., 含有...) S.T.3, A類*		A	P	3	2G	Open	No	No	Yes	Yes	O	No	A	No	No	15.19.6
有毒液體, F, (10) n.o.s. (品名..., 含有...) S.T.3, A類*		A	P	3	2G	Cont.	No	No	No	No	R	F	A	No	No	15.19.6
有毒液體, N.F, (11) n.o.s. (品名..., 含有...) S.T.3, B類*		B	P	3	2G	Open	No	No	Yes	Yes	O	No	A	No	No	15.19.6, [16.2.6, 16.2.9]**
有毒液體, N.F, (12) n.o.s. (品名..., 含有...) S.T.3, B類* 熔點 15°C+		B	P	3	2G	Open	No	No	Yes	Yes	O	No	A	No	No	15.19.6, [16.2.6]**, 16.2.9, 16A.2.2
有毒液體, F, (13) n.o.s. (品名..., 含有...) S.T.3, B類*		B	P	3	2G	Cont.	No	No	No	No	R	F	A	No	No	15.19.6, [16.2.6, 16.2.9]**
有毒液體, F, (14) n.o.s. (品名..., 含有...) S.T.3, B類* 熔點 15°C+		B	P	3	2G	Cont.	No	No	No	No	R	F	A	No	No	15.19.6, [16.2.6]**, 16.2.9, 16A.2.2
有毒液體, N.F, (15) n.o.s. (品名..., 含有...) S.T.3, B類*		C	P	3	2G	Cont.	No	No	Yes	Yes	O	No	A	No	No	[16.2.7 至 16.2.9]**

\* 如果某一具體 n.o.s. 貨物被確定為屬於船上裝運的這一 n.o.s. 的類別, 則該項, 包括貨物品名和一一、二種主要成份, 應在航運文件中予以提供。所用縮略語意為:

N.F.: 超過 60°C 的閃點(閉杯試驗)

F.: 不超過 60°C 的閃點(閉杯試驗)

n.o.s.: 未列名的

\*\* 適用於高黏性 or 高熔點貨物。

S.T.: 船型

Cat.: 污染類別

m.p.: 熔點

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
名...，含有... S.T.3，C類*																
有毒液體，F，(16) n.o.s. (品名...，含有... S.T.3，C類*)		C	P	3	2G	Cont.	No		No	No	R	F	A		No	[16.2.7 至 16.2.9]**
(正)辛烷 (所有異構體) (bb)	1262	(C)	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
辛醇 (所有異構體)		C	P	3	2G	Open	No		Yes	Yes	O	No	A		No	
辛烯 (所有異構體)		B	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
乙酸正辛酯		C	P	3	2G	Open	No		Yes	Yes	O	No	A		No	
辛醛	1191	(B)	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6, 16.2.9
烯烴混合物 (C5-C7) (bb)		C	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
烯烴混合物 (C5-C15)		B	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
α-烯烴 (C6-C18) 混合物		B	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6, 16.2.6, 16.2.9
發煙硫酸	1831	C	S/P	2	2G	Cont.	No	NF			C	T	No		E	15.11.2 to 15.11.8, 15.12.1, 15.16.2, 15.17, 15.19, 16.2.7, 16.2.8
油胺		A	S/P	2	2G	Cont.	No		Yes	Yes	R	T	A		No	15.19.6
棕櫚核酸油		C	P	3	2G	Open	No		Yes	Yes	O	No	A, B		No	16.2.7 至 16.2.9
仲(乙)醛	1264	C	S/P	3	2G	Cont.	No	T3		No	R	F	A		No	15.19.6, 16.2.9
五氯乙烷	1669	B	S/P	2	2G	Cont.	No		NF	NF	R	T	No		No	15.12, 15.17, 15.19.6
1, 3-戊二烯		C	S/P	3	2G	Cont.	No				R	F-T	A, B		No	15.13, 15.19.6, 16.6
戊烷 (所有異構體) (bb)	1265	(C)	P	3	2G	Cont.	No		No	No	R	F	A		No	15.14, 15.19.6
戊烯 (所有異構體) (bb)		C	P	3	2G	Cont.	No		No	No	R	F	A		No	15.14, 15.19.6,
正戊基丙酸		C	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6

\* 如果某一具體 n.o.s. 貨物被確定為屬於船上裝運的這一 n.o.s. 的類別，則該項，包括貨物品名和一、二種主要成份，應在航運文件中予以提供。所用縮略語意為：

為：

N.F.: 超過 60°C 的閃點(閉杯試驗)

S.T.: 船型

F.: 不超過 60°C 的閃點(閉杯試驗)

Cat.: 污染類別

n.o.s.: 未列名的

m.p.: 溶點

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	L DASH	L DASH3	J	K	L	M	N	O
全氯乙烯	1897	B	S/P 3	2G	Cont.	No	No	TI	NF	Yes	R	T	No	No	No	15.12.1, 15.12.2, 15.19.6
苯酚	2312	C	S/P 2	2G	Cont.	No	No	TI	IIA	Yes	C	T	A	No	No	15.12, 15.19, 16.2.7, 16.2.8, 16.2.9,
1-苯基-1,2-二甲苯基乙烷 (bb) 磷酸	1805	C	P 3	2G	Open	No	No		NF	Yes	O	No	A, B	No	No	15.11.1 至 15.11.4, 15.11.6 至 15.11.8
黃磷或白磷	1381, 2447	A	S/P 1	1G	Cont.	Pad+	(Vet or Inert)			No (k)	C	No	C	E	E	15.7, 15.19
鄰苯二甲酸酐 (融溶)	2214	C	S/P 3	2G	Cont.	No	No	TI	IIA	Yes	R	No	A, D	No	No	16.2.7 至 16.2.9
α-烯		A	P 3	2G	Cont.	No	No			No	R	F	A	No	No	15.19.6
蒎烯	2368	B	P 3	2G	Cont.	No	No			No	R	F	A	No	No	15.19.6
松油	1272	C	P 3	2G	Open	No	No			Yes	O	No	A	No	No	16.2.7, 16.2.8
多環 (2+) 芳香劑		A	P 2	2G	Cont.	No	No			Yes	R	No	A, D	No	No	15.19.6
二甲苯中聚烷基 (C18-C22) 丙 烯酸鹽 (或酯)		C	P 3	2G	Cont.	No	No			No	R	F	A	No	No	15.19.6, 16.2.7, 16.2.8
聚烷基環氧多元醇		C	P 3	2G	Open	No	No			Yes	O	No	A	No	No	16.2.7, 16.2.8
聚乙烯聚胺	2734 (i) 2735	(C)	S/P 3	2G	Open	No	No			Yes	O	No	A	N2	No	16.2.9
聚硫酸鐵溶液		(C)	S/P 3	2G	Open	No	No		NF		O	No	No	Y4	No	
聚甲撐聚苯基異氰酸酯	2206 (i) 2207	D	S 2	2G	Cont.	Dry				Yes (b)	C	T(b)	A	N5	No	15.12, 15.16.2, 15.19.6
烷基 (C2-C4) 苯中聚烯胺		(C)	P 3	2G	Cont.	No	No			No	R	F	A	No	No	15.19.6, 16.2.7, 16.2.8
芳香溶劑中聚烯胺		(C)	P 3	2G	Cont.	No	No			No	R	F	A	No	No	15.19.6, 16.2.7, 16.2.8
聚烯偶磷-硫化銀衍生物 (C28-C250)		C	P 3	2G	Open	No	No			Yes	O	No	A, B	No	No	16.2.7, 16.2.8



貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
氯化鉀溶液 (10%或以上)	1814	C	P	3	2G	Open	No		NF		O	No	No		No	
氫氧化鉀溶液		C	S/P	3	2G	Open	No		NF		O	No	No	N8	No	16.2.9
油酸鉀	(C)	P	3	2G	Open	No	No			Yes	O	No	A		No	15.19.6
正-丙醇胺	C	S/P	3	2G	Open	No	No			Yes	O	No	A, D	N2	No	16.2.9
β-丙(酸)內酯	D	S	2	2G	Cont.	No	No		IIA	Yes	R	T	A		No	
丙醛	C	S/P	3	2G	Cont.	No	No			No	R	F-T	A		E	15.16.1, 15.17, 15.19.6
丙酸	D	S	3	2G	Cont.	No	No	T1	IIA	No	R	F	A	Y1	E	15.11.2 至 15.11.4, 15.11.6 至 15.11.8, 15.19.6
丙酸酐	2496	C	S/P	3	2G	Cont.	No	T2	IIA	Yes	R	T	A	Y1	No	
丙腈	2404	C	S/P	2	1G	Cont.	No	T1	IIB	No	C	F-T	A, D		E	15.12, 15.17 至 15.19
正丙胺	1277	C	S/P	2	2G	Cont.	Inert	T2	IIA	No	C	F-T	A, D	N2	E	15.12, 15.19
正丙苯 (所有異構體)	A	P	3	2G	Cont.	No	No			No	R	F	A		No	15.19.6
正氯丙烷	D	S	3	2G	Cont.	No	No			No	R	F	A, B		No	15.19.6
丙烷二聚物 (bb)	(C)	P	3	2G	Cont.	No	No			No	R	F	A		No	15.19.6
1, 2-環氧丙烷	C	S/P	2	2G	Cont.	Inert	T2		IIB	No	C	F-T	A, C	Z	No	15.8, 15.12.1, 15.14, 15.19
丙烷四聚物	2850	B	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
丙烷三聚物	2057	B	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
吡啶	1282	D	S	3	2G	Cont.	No	T1	IIA	No	R	F	A	N4	No	15.19.6
松香	B	P	3	2G	Open	No	No			Yes	O	No	A		No	15.19.6, 16.2.6, 16.2.9, 16A.2.2
松香皂 (無比例) 溶液	B	P	3	2G	Open	No	No			Yes	O	No	A		No	15.19.6
鋁酸鈉溶液	1819	D	S	3	2G	Open	No		NF		O	No	No	N1	No	
硼氫化鈉 (15%或以下)/氫氧化鈉溶液	C	S/P	3	2G	Open	No	No		NF		O	No	No	N1	No	16.2.7
氯化鈉溶液 (50%或以下)	2428	III	S	3	2G	Open	No		NF		O	No	No		No	15.9, 15.16.1, 15.19.6
重鉻酸鈉溶液 (70%或以下)	C	S/P	2	2G	Open	No	No		NF		C	No	No	N2	No	15.12.3, 15.19
亞硫酸氫鈉 (6%或以下)/碳酸鈉 (3%或以下) 溶液	B	P	3	2G	Open	No	No		NF		O	No	No		No	15.19.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
亞硫酸氫鈉溶液 (45%或以下)	2693	D	S	3	2G	Open	No	No	NF		O	No	No	No	No	No
氫硫化鈉溶液 (45%或以下)	2949	B	S/P	3	2G	Cont.	Vent		NF		R	T	No	No	15.16.1, 15.19.6, 16.2.9	
							or Pad (gms)									
氫硫化鈉/硫化胺溶液		B	S/P	2	2G	Cont.	No	No		No	C	F-T	A	N1	E	15.12, 15.14, 15.16.1, 15.17, 15.19, 16.6
氫氧化鈉溶液	1824	D	S	3	2G	Open	No	No	NF		O	No	No	N8	No	
次氯酸鈉溶液 (15%或以下)	1791	C	S/P	3	2G	Cont.	No	No	NF		R	No	No	N5	No	15.16.1
亞硝酸鈉溶液	1500	B	S/P	2	2G	Open	No	No	NF		O	No	No		No	15.12.3.1, 15.12.3.2, 15.16.1, 15.19
石油磺酸鈉		B	S/P	2	2G	Open	No	No		Yes	O	No	A		No	15.19.6, 16.2.6
矽酸鈉溶液		C	P	3	2G	Open	No	No		Yes	O	No	A		No	
硫化鈉溶液 (15%或以下)		B	S/P	3	2G	Cont.	No	No	NF		C	T	No	N5	No	15.16.1, 15.19.6, 16.2.9
硫化鈉溶液 (25%或以下)		C	P	3	2G	Open	No	No	NF		O	No	No		No	15.16.1, 15.19.6, 16.2.9
酒石酸鈉和單/雙琥珀酸溶液		D	S	3	2G	Open	No	No		Yes	O	No	A, B	Y5	No	
硫氰酸鈉溶液 (56%或以下)		(B)	P	3	2G	Open	No	No		Yes	O	No	No		No	15.19.6
苯乙烯單體	2055	B	S/P	3	2G	Cont.	No	T1	IIA		R	F	A, B	N4, Z	No	15.13, 15.19.6, 16.6.1, 16.6.2
長鏈 (C18+) 烷基胺經基混 合物		B	P	3	2G	Open	No			Yes	O	No	A, B		No	15.19.6, 16.2.6
硫 (熔融)	2448	III	S	3	IG	Open	Vent	T3		Yes (1)	O	F-T	No		No	15.10
							or Pad (gms)									
硫酸	1830	C	S/P	3	2G	Open	No				O	No	No		No	15.11, 15.16.2, 16.2.8, 16.2.9
廢硫酸	1832	C	S/P	3	2G	Open	No				O	No	No		No	15.11, 15.16.2, 16.2.8, 16.2.9

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
妥爾油 (粗製和精製)		B	P	3	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6, 16.2.6, 16.2.9, 16A.2.2
妥爾油脂肪酸銀鹽		B	S/P	3	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6, 16.2.6
妥爾油脂肪酸 (樹脂酸少於 20%)		(C)	P	3	2G	Open	No		Yes	Yes	O	No	A		No	16.2.7 至 16.2.9
妥爾油皂 (無比例) 溶液		B	P	3	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6, 16.2.6, 16.2.9
四氯乙烷	1702	B	S/P	3	2G	Cont.	No		NF		R	T	No		No	15.12, 15.17, 15.19.6
四乙撐五胺	2320	D	S	3	2G	Open	No			Yes	O	No	A	N1	No	
四氫呋喃	2056	D	S	3	2G	Cont.	No	T3	IIB	No	R	F-T	A		No	15.19.6
四氫化萘 (bb)		C	P	3	2G	Open	No		Yes	Yes	O	No	A		No	
四甲苯 (所有異構體)		A	P	3	2G	Open	No		Yes	Yes	O	No	A		No	16.2.9, 16A.2.2
甲苯 (bb)	1294	C	P	3	2G	Cont.	No		No	No	R	F	A		No	15.19.6
甲苯二胺	1709	C	S/P	2	2G	Cont.	No		Yes	Yes	C	T	A, D	N1	E	15.12, 15.17, 15.19, 16.2.7, 16.2.9
甲苯二異氰酸酯	2078	C	S/P	2	2G	Cont.	Dry	T1	IIA	Yes	C	F-T	A, C	N4	E	15.12, 15.16.2, 15.17, 15.19, 16.2.9
鄰-甲苯胺	1708	C	S/P	2	2G	Cont.	No		Yes	Yes	C	T	A		No	15.12, 15.17, 15.19
磷酸三丁酯		B	P	3	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6
1, 2, 4-三氯苯	2321	B	S/P	2	2G	Cont.	No		Yes	Yes	R	T	A, B		No	15.19.6, 16.2.9, 16A.2.2
1, 1, 1-三氯乙烷	2831	C	P	3	2G	Open	No		Yes	Yes	O	No	A		No	
1, 1, 2-三氯乙烷		C	S/P	3	2G	Cont.	No		NF		R	T	No		No	15.12.1, 15.19.6
三氯乙烯	1710	C	S/P	3	2G	Cont.	No	T2	IIA	Yes	R	T	No		No	15.12, 15.16.1, 15.17, 15.19.6
1, 2, 3-三氯丙烷		C	S/P	2	2G	Cont.	No		Yes	Yes	C	T	A, B, D		No	15.12, 15.17, 15.19
1, 1, 2-三氯-1, 2, 2-三氟乙烷		C	P	3	2G	Open	No		NF		O	No	No		No	
磷酸三甲苯酯 (含有 1% 或以下 原-異構體)		A	P	2	2G	Open	No		Yes	Yes	O	No	A		No	15.19.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
磷酸三甲苯酯 (含有 1%或以上 原-異構體)	2574 (J)	A	S/P	1	2G	Cont.	No	T2	IIA	Yes	C	No	A, B	No	No	15.12.3, 15.19
十三 (烷) 酸		B	P	3	2G	Open	No			Yes	O	No	A	No	No	15.19.6, 16.2.6, 16.2.9, 16A.2.2
三乙醇胺		D	S	3	2G	Open	No		IIA	Yes	O	No	A	N1	No	
三乙胺	1296	C	S/P	2	2G	Cont.	No	T2	IIA	No	R	F-T	A, C	N2	E	15.12, 15.19.6
三乙基苯		A	P	2	2G	Open	No			Yes	O	No	A		No	15.19.6
三乙撐四胺	2259	D	S	3	2G	Open	No	T2	IIA	Yes	O	No	A	N1	No	
磷酸三乙酯	2323	B	S/P	3	2G	Cont.	No			No	R	F-T	A, B		No	15.12.1, 15.19.6
三異丙基苯磺硫磷酸鹽		A	P	2	2G	Open	No			Yes	O	No	A		No	15.19.6
三甲基乙酸		D	S	3	2G	Cont.	No			Yes	R	No	A	Y1	No	15.11.2 至 15.11.8
三甲胺溶液 (30%或以下)	1297	C	S/P	2	2G	Cont.	No			No	C	F-T	A, C	N1	E	15.12, 15.14, 15.19, 16.2.9
三甲苯 (所有異構體)		A	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
三甲基己撐二胺 (2, 2, 4-和 2, 4, 4-異構體)	2327	D	S	3	2G	Open	No			Yes	O	No	A, C	N1	No	15.19.6
三甲基己撐二異氨酸酯 (2, 2, 4-和 2, 4, 4-異構體)	2328	B	S/P	2	2G	Cont.	Dry			Yes	C	T	A, C		No	15.12, 15.16.2, 15.17, 15.19.6
2, 2, 4, 4-三甲基-1, 3-戊二醇		C	P	3	2G	Open	No			Yes	O	No	A		No	(c)
-1-1-異丁酸酯																
亞磷酸三甲酯	2329	D	S	3	2G	Cont.	No			No	R	F-T	A, D		No	15.12.1, 15.16.2, 15.19.6
I, 3, 5-三噁烷																
磷酸 (三) 二甲苯酯		A	P	1	2G	Open	No			Yes	O	No	A		No	15.19
松節油	1299	B	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
十一 (烷) 酸		B	P	3	2G	Open	No			Yes	O	No	A		No	16.2.6, 16.2.9
1-十一-碳烯		B	P	3	2G	Open	No			Yes	O	No	A		No	15.19.6
十一醇		B	P	3	2G	Open	No			Yes	O	No	A		No	15.19.6, 16.2.9, 16A.2.2 (r)
尿素/硝酸氨溶液 (含氨水)		C	S/P	3	2G	Cont.	No		NF		R	T	A	N4	No	
正-戊醛 (所有異構體)	2058	C	S/P	3	2G	Cont.	Inert	T3	IIB	No	R	F-T	A		No	15.4.6, 15.16.1, 15.19.6

貨品名稱	聯合國 編號	C	D	E	F	G	H	I	I_ DASH	I_ DASH3	J	K	L	M	N	O
乙酸乙烯	1301	C	S/P	3	2G	Cont.	No	T2	IIA	No	R	F	A		No	15.13, 15.19.6, 16.6.1, 16.6.2
乙烯基乙醚	1302	C	S/P	2	1G	Cont.	Inert	T3	IIB	No	C	F-T	A	N6	E	15.4, 15.13, 15.14, 15.19, 16.6.1, 16.6.2
二氯乙烯	1303	D	S	2	2G	Cont.	Inert	T2	IIA	No	R	F-T	B	N5	E	15.13, 15.14, 15.19.6, 16.6.1, 16.6.2
新癸酸乙烯酯		B	S/P	3	2G	Open	No			Yes	O	No	A, B		No	15.13, 15.16.1, 15.19.6, 16.6.1, 16.6.2
乙烯基甲苯	2618	A	S/P	3	2G	Cont.	No		IIA	No	R	F	A, B	N1	No	15.13, 15.19.6, 16.6.1, 16.6.2
松香水, 低 (15-20%) 芳烴	1300	(B)	P	2	2G	Cont.	No			No	R	F	A		No	15.19.6
二甲苯	1307	C	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6, 16.2.9 (w)
二甲苯酚	2261	B	S/P	3	2G	Open	No		IIA	Yes	O	No	A, B		No	15.19.6, 16.2.9, 16A.2.2
烷基二硫代磷酸鹽 (C7-C16)		(C)	P	3	2G	Open	No			Yes	O	No	A, B		No	16.2.7, 16.2.8
烷基二硫代磷酸鹽 (C3-C14)		B	P	3	2G	Open	No			Yes	O	No	A, B		No	15.19.6, 16.2.6

- a 適用於 28%或以下但不低於 10%的氨水。

氨水（28%或以下）

- b 如所載運的貨品含有閉杯閃點不超過 60°C 的易燃溶劑，則應設有特殊電氣系統和易燃蒸所探測器。

二苯甲烷聚氨酯

聚甲撐基聚苯基異氰酸酯

- c 水雖然適合熄滅含有本腳註適用的化學品的露天火災，但水不得沾污裝有這些化學品的封閉液貨艙，因會引起產生有害蒸氣的危險。

二苯甲烷二異氰酸酯

甲苯二異氰酸酯

三甲基己二氰酸酯（2，2，4-和 2，4，4-異構體）

- d 聯合國編號 1198 僅適用於閉杯閃點低於 60°C 者。

甲醛溶液（45%或以下）

- e 適用於 45%或以下但不低於 5%的甲醛溶液。

甲醛溶液（45%或以下）

- f 適用於不低於 10%的鹽酸。

氯化鋁（30%或以下）/鹽酸（20%或以下）溶液

鹽酸

g 由於具有引起爆炸的可能性，因而不能使用化學乾粉。

順丁烯二酐

h 聯合國編號 2032 係指紅色發煙硝酸的編號。

硝酸（70%或以上）

i 聯合國編號因物質的沸點而定。

聚乙烯聚胺

聚甲撐聚苯基異氰酸酯

j 標有聯合國編號的這一物質含有 3%以上的鄰-異構體

磷酸三甲苯酯（含有 1%或以上的鄰-異構體）

k 黃磷或白磷係指在其自燃溫度以上的情況下進行運輸，因此閃點不適用。電氣設備的要求可與閉杯閃點在 60°C 以上的物質的設備要求相類似。

黃磷或白磷

l 硫磺（融溶）的閉杯閃點在 60°C 以上，但電氣設備應經證明對其放出的氣體能安全使用。

硫磺（融溶）

m 聯合國編號 2672 是指 10-35%的氨溶液。

氨水（28%或以下）

n 聯合國編號 2511 僅適用於 2-氯丙酸。

2-或 3-氯丙酸



o 二硝基甲苯不得裝於甲板上的液貨艙中。

二硝基甲苯（融溶）

p（刪除）。

q 要求是根據閉杯閃點為 60°C 或以下的異構體而提出的；有些異構體的閉杯閃點高於 60°C，因此根據可燃性提出的要求不適用於這些異構體。

庚醇（所有異構體）

r 特殊要求欄中應參閱的 16A.2.2 僅適用於 1-十一醇。

十一醇

s 僅適用於正-癸醇。

癸醇（所有異構體）

t 聯合國編號 1114 適用於苯

苯和含苯量為 10%或以上的混合物

u 化學乾粉不得用作滅火劑。

硝基丙烷（60%）/硝基乙烷（40%）混合物

v 應對甲酸蒸氣和分解物質一氧化碳氣體的限制處所進行測試。

甲酸

w 僅適用於對-二甲苯。

二甲苯

x 適用於對-異構體及含有在 20°C 時黏度為 25 mPa.s 的對-異構體混合物。

二氯苯（所有異構體）

y 適用於對-異構體及含有溶點為 0°C 及以上的對-異構體混合物。

二氯苯（所有異構體）

z 適用於對-異構體及含有溶點為 15°C 及以上的對-異構體混合物。

二氯苯（所有異構體）

aa 僅適用於溶點為 15°C 及以上的貨品。

壬基酚聚氧（4-12）乙烯醚

bb 適用於按照經環保會同意的《73/78 年防污公約》附件 II 第 14 條統一解釋的規定認定的類油物質，”

以下列內容取代第 18 章的原有條文：

## 第 18 章

### 不適用本規則的化學品名單

1 下面是其安全和污染危害性已經檢查並決定所表明的危害性尚不足以列入本規則適用範圍的化學品。本名單對考慮散裝運輸其危害性尚未評定的化學品時，可作為一份指南。

2 雖然本章所列化學品不在本規則範圍內，主管機關仍應注意為安全運輸，可能需要採取一些安全措施。因此，主管機關應規定適當的安全要求。

3 有些化學品被認定屬於污染 D 類，因此，須按照《73/78 年防污公約》附件 II 的若干操作要求。

4 按照《73/78 年防污公約》附件 II 第 3 (4) 條暫時評定為污染 D 類的液體混合物並不具有安全危害者，可按照本章未另有列名的有毒液體條目承運。暫時評定為污染 A、B、C 或 D 類的混合物並不具有安全危害者可以相似辦法按照本章未另有列名的非毒液體條目承運。

#### 註釋

貨品名稱 (a 欄)	在某些情況下，貨品名稱可能與以前版本的《國際散化規則》或《散化規則》中所列名稱不一致（說明見化學品索引）。
聯合國編號	係指聯合國危險品運輸專家委員會所提建議書

- (b 欄) 中有關每一貨物的編號。
- 污染類別 字母 D 表示對《73/78 年防污公約》附件 II 中的每一貨品所確定的污染類別。“III”表示該貨品已被評定並認為不屬於 A、B、C 或 D 類。
- (c 欄) 括號中的污染類別表示該貨品已被暫時分類，但要完成其污染危害的評定尚需進一步的資料。在完成危害評定前，暫用所指定的污染類別。

a	b	c
貨品名稱	聯合國編號	操作排放時的污染類別 (附件 II 第 3 條)
丙酮	1090	III
醇類 (C <sub>13+</sub> )	-	III
含酒精飲料，未另列名	3065	III
丙烯腈-苯乙烯纖維分散在聚醚多元醇中	-	D
正-烷烴 (C <sub>10+</sub> )	-	III
鏈烯基聚醚 (C <sub>9</sub> -C <sub>20</sub> )	-	D
鏈烯基 (C <sub>11+</sub> ) 酰胺	-	D
烷基胺 (C <sub>8+</sub> ) 鏈烯基 (C <sub>12+</sub> ) 酸酯混合物	-	D
烷基 (C <sub>9+</sub> ) 苯	-	III
烷基 (C <sub>6</sub> -C <sub>24</sub> ) 二硫噻二唑	-	D

a	b	c
硫酸鋁溶液	-	D
氨乙基二乙醇胺/氨乙基乙醇胺溶液	-	III
2-氨基-2-羥甲基-1,3-丙二醇溶液 (40%或以下)	-	III
磷酸氫銨溶液	-	D
多磷酸銨溶液	-	D
硫酸銨溶液	-	D
(正)戊醇	1105	D
仲戊醇	1105	D
叔戊醇	1105	III
戊醇，初級	1105	D
動物油和魚油，未另列名，包括： 鱈魚肝油 羊毛脂 牛蹄油 沙丁（魚）油 鯨蠟油	-	D
動物油和魚油及餾出酸，未另列名，包括： 動物酸性油 魚酸性油 豬脂酸性油 混合酸性油 混合一般酸性油	-	D

a	b	c
混合硬酸性油		
混合軟酸性油		
蘋果汁	-	III
芳基聚烯烴 (C <sub>11</sub> -C <sub>50</sub> )	-	D
苯三羧酸，三辛基酯	-	III
剎車油原始混合物： (聚(2-8)亞烷基(C <sub>2</sub> -C <sub>3</sub> )乙二醇 /聚亞烷基(C <sub>2</sub> -C <sub>10</sub> )乙二醇單烷基 (C <sub>1</sub> -C <sub>4</sub> )醚和其硼酸鹽酯) <sup>1/</sup>	-	D
醋酸(仲)丁酯	1123	D
正丁醇	1120	III
仲丁醇	1120	III
叔丁醇	1120	III
丁二醇	-	D
硬脂酸丁酯	-	III
γ-丁丙酯	-	D
碳酸鈣漿	-	III
氫氧化鈣漿	-	D
長鏈烷芳基磺酸鈣(C <sub>11</sub> -C <sub>50</sub> )	-	D
長鏈烷基硫化酚鈣(C <sub>8</sub> -C <sub>40</sub> )	-	D
長鏈酚胺鈣(C <sub>8</sub> -C <sub>40</sub> )	-	III
硝酸鈣/硝酸鎂/氯化鉀溶液	-	III

<sup>1/</sup> 航運文件中“剎車油原始混合物”作為專有名詞使用。

a	b	c
ε-己丙酰胺（熔融的或水溶液）	-	D
氯化石蠟（C <sub>14</sub> -C <sub>17</sub> ）（含有 52%氯）	-	III
氧化膽鹼溶液	-	D
檸檬酸（70%或以下）	-	D
黏土泥漿	-	III
煤漿	-	III
椰子油脂肪酸甲酸	-	D
環己醇	-	D
十氫化萘	1147	(D)
葡萄糖溶液	-	III
雙丙酮醇	1148	D
鄰苯二甲酸（C <sub>7</sub> -C <sub>13</sub> ）二烴酯	-	D
二甘醇	-	D
二甘醇二丁醚	-	D
二甘醇二乙醚	-	III
二甘醇鄰苯二甲酸鹽（或酯）	-	D
二乙基三胺五乙酸，五鈉鹽溶液	-	III
二（2-乙基己基）乙二酸酯	-	D
鄰苯二甲酸二庚酯	-	III
鄰苯二甲酸二己酯	-	III
1，4-二氫-9，10-二羥（基）蒽，二鈉鹽溶液	-	D
二異丁基甲酮	1157	D



a	b	c
己二酸二異壬酯	-	D
鄰苯二甲酸二異辛酯	-	III
二異丙基萘	-	D
2, 2-二甲基丙烷-1, 3-二醇	-	(D)
二甲基聚矽氧烷	-	III
鄰苯二甲酸二壬酯	-	D
鄰苯二甲酸二辛酯	-	III
二丙基二醇	-	III
鄰苯二甲酸雙十三烷基酯	-	D
鄰苯二甲酸雙十一烷基酯	-	D
十二烷（所有異構體）	-	III
十二碳烯琥珀酸，二鉀鹽溶液	-	(D)
十二烷基苯	-	III
十二烷基二甲苯	-	III
鑽井鹽水包括： 溴化鈣溶液 氯化鈣溶液 氯化鈉溶液	-	III
2-乙氧基乙醇	1171	D
乙酸乙酯	1173	D
乙酰乙酸乙酯	-	(D)
乙醇	1170	III
碳酸乙烯酯	-	III

a	b	c
乙二胺、四乙酸，四鈉鹽溶液	-	D
乙二醇	-	D
乙二醇醋酸酯	-	(D)
乙二醇甲基丁基醚	-	D
乙二醇苯基醚	-	D
乙二醇苯基醚/二甘醇苯基醚混合物	-	D
烯-醋酸乙烯共聚物（乳濁液）	-	III
2-乙基己酸	-	D
乙基丙酸酯	1195	D
脂肪酸（飽和的，C <sub>13+</sub> ）	-	III
羥己基鐵乙二胺三乙酸，三鈉鹽溶液	-	D
魚可溶液*	-	III
甲酰胺	-	D
葡萄糖溶液	-	III
甘油	-	III
甘油（83%），二噁烷二甲橋（17%） 混合物	-	D
甘油聚烷氧化物	-	III
甘油三乙酸脂	-	(III)
甘氨酸，鈉鹽溶液	-	III
乙二醛溶液（40%或以下）	-	D

\* 水基魚肉汁。

a	b	c
正庚酸	-	D
己撐二胺己二酸脂 (水中濃度 50%)	-	D
1, 6-己二醇	-	III
六甲撐基四胺溶液	-	D
己酸	-	D
己醇	2282	D
己烯二醇	-	III
N- (經己基) 乙二胺三醋酸, 三鈉鹽溶液	-	D
異戊醇	1105	D
異丁醇	1212	III
甲酸異丁酯	2393	D
異和環-烷烴 (C <sub>10</sub> -C <sub>11</sub> )	-	D
異和環-烷烴 (C <sub>12</sub> +) )	-	III
異佛爾酮	-	D
醋酸異丙酯	1220	III
異丙醇	1219	III
高嶺土漿	-	III
乳酸	-	D
豬油	-	III
膠乳 :		
羧酸化苯乙烯-丁二烯聚合物	-	III
苯乙烯-丁二烯橡膠	-	III

a	b	c
膠乳，抑制氨（1%或以下）	-	D
木質磺酸，鈉鹽溶液	-	III
長鏈烷芳基磺酸（C <sub>16</sub> -C <sub>60</sub> ）	-	D
長鏈烷基酚鹽/酚硫化物	-	III
氯化鎂溶液	-	III
氫氧化鎂溶液	-	III
長鏈烷芳基磺酸鹽（C <sub>11</sub> -C <sub>50</sub> ）	-	D
3-甲氧基-1-丁醇	-	III
乙酸-3-甲氧基丁酯	-	D
乙酸甲酯	1231	III
乙酰乙酸甲酯	-	D
甲醇	1230	D
甲基戊基甲酮	-	D
甲基丙基丙酮	-	D
N-甲基-2-吡咯烷酮	-	D
甲基丁烯醇	-	(D)
甲基叔丁基醚	2398	D
甲基丁基酮	-	D
甲基丁炔醇	-	D
甲基乙基甲酮	1193	III
甲基異丁基甲酮	1245	D
3-甲基-3-甲氧基丁醇	-	III
3-甲基-3-甲氧基醋酸丁酯	-	III

a	b	c
糖蜜	-	III
月桂烯	-	D
萘磺酸/甲醛共聚物，鈉鹽溶液	-	D
氮川基三乙酸，三鈉鹽溶液	-	D
壬基酸（所有異構體）	-	D
壬基甲基丙烯酸酯單體	-	(D)
有毒液體，n.o.s. (17) （商品名...，含有...）D 類 <sup>1/</sup>	-	D
有毒液體，n.o.s. (18) （商品名...，含有...）附錄 III <sup>1/</sup>	-	III
辛酸（所有異構體）	-	D
辛基癸基己二酸酯	-	III
烯烴（C <sub>13</sub> +，所有異構體）	-	III
烯烴/烷基醚共聚物 （分子重量 2000+）	-	D
油酸	-	D
棕櫚油脂肪酸甲酯	-	D
棕櫚硬脂	-	D
石臘	-	III
五乙烯六胺	-	D
戊酸	-	D

<sup>1/</sup> 如果某一具體的 n.o.s.（未另列名）貨物被確定為屬於船上裝運的這一 n.o.s.類別，則該項目，包括貨物的商品名稱和一、二種主要成份，應在航運文件中提供。

a	b	c
礦物油	-	( III )
聚 ( 2-8 ) 亞烷基乙二醇單烷基 ( C <sub>1</sub> -C <sub>6</sub> ) 醚	-	D
聚 ( 2-8 ) 亞烷基乙二醇單烷基 ( C <sub>1</sub> -C <sub>6</sub> ) 醚乙酸酯	-	D
氯化多鋁溶液	-	III
聚丁烯	-	III
聚醚 ( 分子重量 2000+ )	-	D
聚丙二醇	-	III
聚丙醇甲醚	-	III
甘油聚合物，鈉鹽溶液 ( 含有少於 3%的氫氧化鈉 )	-	III
聚甘油	-	III
聚 ( 4+ ) 異丁烯	-	III
聚烯烴 ( 分子重量 300+ )	-	III
聚烯烴酰胺烯烴胺 ( C <sub>28</sub> + )	-	D
聚 烯 烴 酰 胺 烯 烴 胺 硼 酸 鹽 ( C <sub>28</sub> -C <sub>250</sub> )	-	D
聚烯烴酰胺烯烴胺硫氧化鋁	-	III
聚烯烴酰胺烯烴胺多元醇	-	D
聚烯烴酞	-	D
聚烯烴酯 ( C <sub>28</sub> -C <sub>250</sub> )	-	D
聚烯烴酚胺 ( C <sub>28</sub> -C <sub>250</sub> )	-	D

a	b	c
聚(20)氧乙烯基脫水山梨(糖)醇-油酸	-	III
聚(5+)丙烯	-	III
聚丙二醇	-	D
聚矽氧烷	-	III
正-醋酸丙脂	1276	D
正-丙醇	1274	III
丙烯/丁烯共聚物	-	III
丙二醇	-	III
丙二醇單烷基醚	-	(D)
丙二醇甲醚脂	-	D
乙酸鈉溶液	-	(D)
鋁矽酸鈉漿	-	III
苯甲酸鈉	-	D
碳酸鈉溶液	-	D
聚(4+)丙烯酸鈉溶液	-	III
硫酸鈉溶液	-	III
山梨(糖)醇溶液	-	III
磺基烴(C <sub>3</sub> -C <sub>88</sub> )	-	D
環丁砜	-	D
動物脂	-	D
動物脂肪酸	-	(D)
四甘醇	-	III



a	b	c
十三（碳）烷	-	III
乙酸十三酯	-	III
磷酸三乙酯	-	D
三甘醇	-	III
三異丙醇胺	-	III
三羥甲基丙烷-多羥乙基酯	-	D
2，2，4-三甲基-1，3-戊二醇甘油二 異丁酸酯	-	III
三縮三丙二醇	-	III
尿素/亞磷酸氫銨和亞磷酸二氫銨/ 氯化鉀溶液	-	(D)
尿素/硝酸銨溶液	-	D
尿素/磷酸銨溶液	-	D
尿醛樹脂溶液	-	III
尿素溶液	-	III
植物油，未另列名，包括： 山毛櫸堅果油、蓖麻油、可可 油、椰子油、玉米油、棉子油、花 生油、榛籽油、亞麻子油、肉豆蔻 脂、奧氣油、橄欖油、棕櫚堅果油、 棕櫚油、果皮油（橙和檸檬）、紫蘇 子油、罌粟子油、葡萄子油、菜籽 油、米糠油、紅花油、色拉油、芝 麻油、石油、葵花油、星實櫚油、	-	D

a	b	c
桐油、核桃油		
植物酸性油和溜出液，未另列名， 包括： 玉米酸性油、棉籽酸性油、暗色 混合酸性油、花生酸性油、混合酸 性油、混合普通酸性油、混合硬酸 性油、混合軟酸性油、菜籽酸性油、 紅花酸性油、大豆酸性油、葵花籽 酸性油	-	D
植物蛋的質溶液（水解）	-	III
水	-	III
臘	-	D

增加的新第 20 章如下：

## 第 20 章

### 液體化學廢物的運輸

#### 20.1 前言

20.1.1 海上運輸液體化學廢物可能對人類健康和環境構成威脅。

20.1.2 因此，液體化學廢物的運輸應按照有關國際公約和建議，就海上散裝運輸而言，特別應按照本規則的要求。

#### 20.2 定義

就本章而言：

20.2.1 “液體化學廢物”係指提供貨運的、含有或沾染有一種或多種須符合本規則要求的成分，並且預計沒有直接用途而運輸用以傾倒、焚燒或其他非海上處置的方法的物質、溶液或混合物。

20.2.2 “越境運輸”係指將廢物從一個國家的國家管轄範圍內的某個區域運到或通過另一國家的國家管轄範圍內的某個區域或運到或通過任何國家不在任何國家的國家管轄範圍內的某個區域的海上運輸，但該運輸至少應涉及兩個國家。

#### 20.3 適用範圍

20.3.1 本章要求適用於由海船進行的散裝液體化學廢物的越境運輸並應與本規則的所有其他要求一起考慮。

### 20.3.2 本章要求不適用於下列物質：

- .1 受《73/78 年防污公約》要求管轄的船舶營運所產生的廢物；
- .2 從事由本規則第 19 章管轄的液體化學廢物海上焚燒的船舶所載的此種廢物；和
- .3 含有或污染有須符合對放射性物質的適用要求的放射性物質的物質、溶液或混合物。

### 20.4 經允許的貨載

#### 20.4.1 僅在下列情況下才允許開始進行廢物越境運輸：

- .1 產地國主管當局或廢物生產者或出口者通過產地國主管當局已向最後目的國發出通知書；和
- .2 在收到最終目的地國的書面同意，說明廢物將被安全地焚燒或由其他處置辦法處理後，原產地國的主管當局批准了此種運輸。

### 20.5 證件

20.5.1 除本規章 16.2 中所規定的證件外，從事液體化學廢物越境運輸的船舶應攜帶產地國主管當局頒發的廢物運輸證件。

### 20.6 液體化學廢物的分類

20.6.1 為保護海洋環境，散裝運輸的所有液體化學廢物應被視作為 A 類有毒液體物質，不論實際被評定為何種類別。

## 20.7 液體化學廢物的運輸和裝卸

20.7.1 液體化學廢物應按照對在第 17 章規定的液體化學廢物的最低要求在船中和液貨艙中運載，除非因廢物的危害，有明確的理由表明：

- .1 必需按照船型 1 的要求裝運；或
- .2 必需有本章中適合於該種物質，或對於混合物，適合於有主要危害成分的任何額外要求。

RESOLUTION MSC.28(61)  
(adopted on 11 December 1992)

ADOPTION OF AMENDMENTS TO THE INTERNATIONAL CODE FOR  
THE CONSTRUCTION AND EQUIPMENT OF SHIPS CARRYING  
DANGEROUS CHEMICALS IN BULK (IBC CODE)

THE MARITIME SAFETY COMMITTEE,

RECALLING Article 28(b) of the Convention on the International Maritime Organization concerning the functions of the Committee,

RECALLING ALSO resolution MSC.4(48), by which the Committee adopted the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code),

RECALLING FURTHER article VIII(b) and regulation VII/8.1 of the International Convention for the Safety of Life at Sea, 1974 (SOLAS Convention), as amended, concerning the procedure for amending the IBC Code,

BEING DESIROUS of keeping the IBC Code up to date,

HAVING CONSIDERED, at its sixty-first session, amendments to the Code proposed and circulated in accordance with article VIII(b)(i) of the SOLAS Convention,

CONSIDERING that it is highly desirable for the provisions of the IBC Code, which are mandatory under both the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 related thereto (MARPOL 73/78) and the 1974 SOLAS Convention, to remain identical,

1. ADOPTS, in accordance with article VIII(b)(iv) of the SOLAS Convention, amendments to the Code, the text of which is set out in the annex to the present resolution;
2. DETERMINES, in accordance with article VIII(b)(vi)(2)(bb) of the Convention, that the amendments shall be deemed to have been accepted on 1 January 1994 unless, prior to that date, more than one third of the Contracting Governments to the SOLAS Convention or Contracting Governments the combined merchant fleets of which constitute not less than fifty per cent of the gross tonnage of the world's merchant fleet, have notified their objections to the amendments;
3. INVITES Contracting Governments to note that, in accordance with article VIII(b)(vii)(2) of the SOLAS Convention, the amendments shall enter into force on 1 July 1994 upon their acceptance in accordance with paragraph 2 above;

4. REQUESTS the Secretary-General, in conformity with article VIII(b)(v) of the SOLAS Convention, to transmit certified copies of the present resolution and the text of the amendments contained in the annex to all Contracting Governments to the SOLAS Convention;

5. FURTHER REQUESTS the Secretary-General to transmit copies of the resolution and its annex to Members of the Organization which are not Contracting Governments to the SOLAS Convention.

## ANNEX

## AMENDMENTS TO THE IBC CODE

The last sentence of 1.1.1 is replaced by the following:

Products that have been reviewed and determined not to present safety and pollution hazards to such an extent as to warrant the application of the Code are found in chapter 18.

The following sentence is added to the existing text of 1.1.3:

For the evaluation of the pollution hazard of such a product and assignment of its pollution category, the procedure specified in regulation 3(4) of Annex II of MARPOL 73/78 must be followed.

The existing text of chapter 8 is replaced by the following:

## CHAPTER 8 - CARGO TANK VENTING AND GAS-FREEING ARRANGEMENTS

## 8.1 Application

8.1.1 This chapter applies to ships constructed on or after 1 January 1994.

8.1.2 Ships constructed before 1 January 1994 should comply with the requirements of chapter 8 of this Code which were in force prior to the said date.

8.1.3 For the purpose of this regulation, the term "ship constructed" is as defined in regulation II-1/1.3.1 of the 1974 SOLAS Convention as amended.

8.1.4 Ships constructed on or after 1 July 1986 but before 1 January 1994 which fully comply with the requirements of the Code applicable at that time may be regarded as complying with the requirements of regulation II-2/59 of the 1974 SOLAS Convention.

8.1.5 For ships to which the Code applies, the requirements of this chapter should apply in lieu of regulation II-2/59.1 and 59.2 of the 1974 SOLAS Convention, as amended.

## 8.2 Cargo tank venting

8.2.1 All cargo tanks should be provided with a venting system appropriate to the cargo being carried and these systems should be independent of the air pipes and venting systems of all other compartments of the ship. Tank venting systems should be designed so as to minimize the possibility of cargo vapour accumulating about the decks, entering accommodation, service and machinery spaces and control stations and, in the case of flammable vapours, entering or collecting in spaces or areas containing sources of ignition. Tank venting systems should be arranged to prevent entrance of water into the cargo tanks and at the same time, vent outlets should direct the vapour discharge upwards in the form of unimpeded jets.



8.2.2 The venting systems should be connected to the top of each cargo tank and as far as practicable the cargo vent lines should be self-draining back to the cargo tanks under all normal operational conditions of list and trim. Where it is necessary to drain venting systems above the level of any pressure/vacuum valve, capped or plugged drain cocks should be provided.

8.2.3 Provision should be made to ensure that the liquid head in any tank does not exceed the design head of the tank. Suitable high-level alarms, overflow control systems or spill valves, together with gauging and tank filling procedures may be accepted for this purpose. Where the means of limiting cargo tank overpressure includes an automatic closing valve, the valve should comply with the appropriate provisions of 15.19.

8.2.4 Tank venting systems should be designed and operated so as to ensure that neither pressure nor vacuum created in the cargo tanks during loading or unloading exceeds tank design parameters. The main factors to be considered in the sizing of a tank venting system are as follows:

- .1 design loading and unloading rate;
- .2 gas evolution during loading: this should be taken account of by multiplying the maximum loading rate by a factor of at least 1.25;
- .3 density of the cargo vapour mixture;
- .4 pressure loss in vent piping and across valves and fittings;
- .5 pressure/vacuum settings of relief devices.

8.2.5 Tank vent piping connected to cargo tanks of corrosion resistant material, or to tanks which are lined or coated to handle special cargoes as required by the Code, should be similarly lined or coated or constructed of corrosion-resistant material.

8.2.6 The master should be provided with the maximum permissible loading and unloading rates for each tank or group of tanks consistent with design of the venting systems.

### 8.3 Types of tank venting systems

8.3.1 An open tank venting system is a system which offers no restriction except for friction losses to the free flow of cargo vapours to and from the cargo tanks during normal operations. An open venting system may consist of individual vents from each tank, or such individual vents may be combined into a common header or headers, with due regard to cargo segregation. In no case should shutoff valves be fitted either to the individual vents or to the header.

8.3.2 A controlled tank venting system is a system in which pressure and vacuum relief valves or pressure/vacuum valves are fitted to each tank to limit the pressure or vacuum in the tank. A controlled venting system may consist of individual vents from each tank or such individual vents on the pressure side only as may be combined into a common header or headers with due regard to cargo segregation. In no case should shutoff valves be fitted

either above or below pressure or vacuum relief valves or pressure/vacuum valves. Provision may be made for bypassing a pressure or vacuum valve or pressure/vacuum valve under certain operating conditions provided that the requirement of 8.3.5 is maintained and that there is suitable indication to show whether or not the valve is bypassed.

8.3.3 The position of vent outlets of a controlled tank venting system should be arranged:

- .1 at a height of not less than 6 m above the weather deck or above a raised walkway if fitted within 4 m of the raised walkway;
- .2 at a distance of at least 10 m measured horizontally from the nearest air intake or opening to accommodation, service and machinery spaces and ignition sources.

8.3.4 The vent outlet height referred to in 8.3.3.1 may be reduced to 3 m above the deck or a raised walkway, as applicable, provided that high velocity venting valves of a type approved by the Administration directing the vapour/air mixture upwards in an unimpeded jet with an exit velocity of at least 30 m/s are fitted.

8.3.5 Controlled tank venting systems fitted to tanks to be used for cargoes having a flashpoint not exceeding 60°C (closed cup test) should be provided with devices to prevent the passage of flame into the cargo tanks. The design, testing and locating of the devices should comply with the requirements of the Administration which should contain at least the standards adopted by the Organization.\*

8.3.6 In designing venting systems and in the selection of devices to prevent the passage of flame for incorporation into the tank venting system, due attention should be paid to the possibility of the blockage of these systems and fittings by, for example, the freezing of cargo vapour, polymer build up, atmospheric dust or icing up in adverse weather conditions. In this context it should be noted that flame arresters and flame screens are more susceptible to blockage. Provisions should be made such that the system and fittings may be inspected, operationally checked, cleaned or renewed as applicable.

8.3.7 Reference in 8.3.1 and 8.3.2 to the use of shutoff valves in the venting lines should be interpreted to extend to all other means of stoppage including spectacle blanks and blank flanges.

#### 8.4 Venting requirements for individual products

Venting requirements for individual products are shown in column "g" and additional requirements in column "o" in the table of chapter 17.

---

\* Reference is made to the Revised Standards for the Design, Testing and Locating of Devices to Prevent the Passage of Flame into Cargo Tanks in Tankers (MSC/Circ.373/Rev.1).

## 8.5 Cargo tank gas-freeing\*

8.5.1 The arrangements for gas-freeing cargo tanks used for cargoes other than those for which open venting is permitted should be such as to minimize the hazards due to the dispersal of flammable or toxic vapours in the atmosphere and to flammable or toxic vapour mixtures in a cargo tank. Accordingly, gas-freeing operations should be carried out such that vapour is initially discharged:

- .1 through the vent outlets specified in 8.3.3 and 8.3.4; or
- .2 through outlets at least 2 m above the cargo tank deck level with a vertical efflux velocity of at least 30 m/s maintained during the gas-freeing operation; or
- .3 through outlets at least 2 m above the cargo tank deck level with a vertical efflux velocity of at least 20 m/s which are protected by suitable devices to prevent the passage of flame.

When the flammable vapour concentration at the outlets has been reduced to 30% of the lower flammable limit and in the case of a toxic product the vapour concentration does not present a significant health hazard, gas-freeing may thereafter be continued at cargo tank deck level.

8.5.2 The outlets referred to in 8.5.1.2 and 8.5.1.3 may be fixed or portable pipes.

8.5.3 In designing a gas-freeing system in conformity with 8.5.1 particularly in order to achieve the required exit velocities of 8.5.1.2 and 8.5.1.3, due consideration should be given to the following:

- .1 materials of construction of system;
- .2 time to gas-free;
- .3 flow characteristics of fans to be used;
- .4 the pressure losses created by ducting, piping, cargo tank inlets and outlets;
- .5 the pressure achievable in the fan driving medium (e.g. water or compressed air);
- .6 the densities of the cargo vapour/air mixtures for the range of cargoes to be carried.

---

\* Reference is made to the Revised Factors to be taken into Consideration when Designing Cargo Tanks Venting and Gas-Freeing Arrangements (MSC/Circ.450/Rev.1) and to the Revised Standards for the Design, Testing and Locating of Devices to Prevent the Passage of Flame into Cargo Tanks in Tankers (MSC/Circ.373/Rev.1).

In the existing text of 11.1.2 the words "Caustic potash solution, phosphoric acid or sodium hydroxide solution" are replaced by the following words:

"products which are non-flammable (entry NF in column 'i' of the table of minimum requirements)".

New paragraph 11.1.3 is added as follows:

For ships engaged solely in the carriage of products with flashpoint above 60°C (entry "yes" in column 'i' of the table of minimum requirements) requirements of chapter II-2 of the 1983 SOLAS amendments may apply as specified in regulation II-2/55.4 in lieu of the provisions of this chapter.

At the end of the existing text of the introductory paragraph of chapter 12 - Mechanical ventilation in the cargo area the following sentence is added:

However, for products addressed under 11.1.2 and 11.1.3, except acids and products for which paragraph 15.17 apply, regulation II-2/59.3 of the 1983 SOLAS amendments may apply in lieu of the provisions of this chapter.

The existing text of 14.2.8.1 is replaced by the following:

filter type respiratory protection is unacceptable;

The existing text of 15.13 is amended to read as follows:

15.13 Cargoes protected by additives

15.13.1 Certain cargoes with a reference in column 'o' in the table of chapter 17 by the nature of their chemical make-up tend, under certain conditions of temperature, exposure to air or contact with a catalyst, to undergo polymerization, decomposition, oxidation or other chemical changes. Mitigation of this tendency is carried out by introducing small amounts of chemical additives into the liquid cargo or by controlling the cargo tank environment.

15.13.2 No change.

15.13.3 Care should be taken to ensure that these cargoes are sufficiently protected to prevent deleterious chemical change at all times during the voyage. Ships carrying such cargoes should be provided with a certificate of protection from the manufacturer and kept during the voyage specifying:

- .1 the name and amount of additive present;
- .2 whether the additive is oxygen-dependent;
- .3 date additive was put in the product and duration of effectiveness;
- .4 any temperature limitations qualifying the additive's effective lifetime; and
- .5 the action to be taken should the length of voyage exceed the effective lifetime of the additive.

15.13.4 Ships using the exclusion of air as the method of preventing oxidation of the cargo should comply with 9.1.3.

15.13.5 A product containing an oxygen-dependent additive should be carried without inertion (in tanks of a size not greater than 3,000 m<sup>3</sup>). Such cargoes should not be carried in a tank requiring inertion under the requirements of SOLAS chapter II-2.

15.13.6 As existing 15.13.5.

15.13.7 As existing 15.13.6.

The existing text of 15.15 is replaced by the word:

"Deleted"

In the existing text of 15.8.29 the following words are inserted after the second sentence:

Remote manual operation should be arranged such that remote starting of pumps supplying the water spray system and remote operation of any normally closed valves in the system can be carried out from a suitable location outside the cargo area, adjacent to the accommodation spaces and readily accessible and operable in the even of fire in the areas protected.

A new 15.21 is added as follows:

15.21 Temperature sensors

Temperature sensors should be used to monitor the cargo pump temperature to detect overheating due to pump failures.

The existing text of chapter 17 is replaced by the following:

#### CHAPTER 17 - SUMMARY OF MINIMUM REQUIREMENTS

Mixtures of noxious liquid substances presenting pollution hazards only and which are provisionally assessed under regulation 3(4) of Annex II of MARPOL 73/78, may be carried under the requirements of the Code applicable to the appropriate position of the entry in this chapter for noxious liquids not otherwise specified.



## EXPLANATORY NOTES

Product name (column a)	The product names are not identical with the names given in previous issues of the Code, or the BCH Code (for explanation see index of chemicals).
UN number (column b)	The number relating to each product shown in the recommendations proposed by the United Nations Committee of Experts on the Transport of Dangerous Goods. UN numbers, where available, are given for information only.
Pollution category (column c)	The letter A, B, C or D means the pollution category assigned to each product under Annex II of MARPOL 73/78. "III" means the product was evaluated and found to fall outside the categories A, B, C or D.  Pollution category in brackets indicates that the product is provisionally categorized and that further data are necessary to complete the evaluation of their pollution hazards. Until the hazard evaluation is completed, the pollution category assigned is used.
Hazards (column d)	S means that the product is included in the Code because of its safety hazards; P means that the product is included in the Code because of its pollution hazards; and S/P means that the product is included in the Code because of both its safety and pollution hazards.
Ship type (column e)	1 = ship type 1 (2.1.2) 2 = ship type 2 (2.1.2) 3 = ship type 3 (2.1.2)
Tank type (column f)	1 = independent tank (4.1.1) 2 = integral tank (4.1.2) G = gravity tank (4.1.3) P = pressure tank (4.1.4)
Tank vents (column g)	Open: open venting Cont: controlled venting SR: safety relief valve
Tank environmental control* (column h)	Inert: inerting (9.1.2.1) Pad: liquid or gas (9.1.2.2) Dry: drying (9.1.2.3) Vent: natural or forced (9.1.2.4)

Electrical equipment (column i)	T1 to T6: temperature classes** IIA, IIB or IIC: apparatus groups** NF: nonflammable product (10.1.6) Yes: flashpoint exceeding 60°C (closed cup test) (10.1.6) No: flashpoint not exceeding 60°C (closed cup test) (10.1.6)
Gauging (column j)	O: open gauging (13.1.1.1) R: restricted gauging (13.1.1.2) C: closed gauging (13.1.1.3) I: indirect gauging (13.1.1.3)
Vapour detection* (column k)	F: flammable vapours T: toxic vapours
Fire protection (column l)	A: Alcohol-resistant foam or multipurpose foam B: regular foam, encompasses all foams that are not of an alcohol-resistant type, including fluoro-protein and aqueous-film- forming foam (AFFF) C: water-spray D: dry chemical*** No: no special requirements under this Code
Materials of construction (column m)	N: See 6.2.2 Z: See 6.2.3 Y: See 6.2.4 A blank indicates no special guidance given for materials of construction.
Respiratory and eye protection (column n)	E: See 14.2.8

\* "No" indicates nil requirements.

\*\* Temperature classes and apparatus groups as defined in International Electrotechnical Commission Publication 79 (part 1, appendix D, parts 4, 8 and 12. A blank indicates that data are currently not available.)

\*\*\* Dry chemical powder systems when used may require an additional water system for boundary cooling. This is normally provided in sufficient quantities by the standard fire main system required by regulation II-2/4 of the 1974 SOLAS Convention as amended.

PRODUCER	UN NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O	
Acetic acid		D	S	1	2G	Cont. No	No	T1	IIA	No	R	F	A	Y1,Z	E	15.11.2 to 15.11.4, 15.11.6 to 15.11.8, 15.19.6
Acetic anhydride	1715	D	S	2	2G	Cont. No	No	T2	IIA	No	R	F-T	A	Y1	E	15.11.2 to 15.11.4, 15.11.6 to 15.11.8, 15.19.6
Acetone cyanohydrin	1541	A	S/P	2	2G	Cont. No	No	T1	IIA	Yes	C	T	A	Y1	E	15.1, 15.12, 15.17 to 15.19, 16.6
Acetonitrile	1648	III	S	2	2G	Cont. No	No	T2	IIA	No	R	F-T	A		No	15.12, 15.19.6
Acrylamide solution (50% or less)	2074	D	S	2	2G	Open No	No		MF		C	No	No		No	15.12.1, 15.13, 15.16.1, 15.19.6, 16.6.1
Acrylic acid	2218	D	S	1	2G	Cont. No	No	T2	IIA	No	R	F-T	A	Y1	No	15.13, 15.19.6, 16.6.1
Acrylonitrile	1093	B	S/P	2	2G	Cont. No	No	T1	IIB	No	C	F-T	A	M1,Z	E	15.12, 15.13, 15.17, 15.19
Adiponitrile	2205	D	S	3	2G	Cont. No	No		IIB	Yes	R	T	A		No	
Alachlor technical (90% or more)		B	S/P	3	2G	Open No	No			Yes	O	No	A,C	Y1	No	15.19.6, 16.2.6, 16.2.9, 16A.2.2
Alcohol (C12-C15) poly(1-6) ethoxylates		A	P	2	2G	Open No	No			Yes	O	No	A		No	15.19.6
Alcohol (C12-C15) poly(7-19) ethoxylates		B	P	1	2G	Open No	No			Yes	O	No	A		No	15.19.6, 16.2.6
Alcohol (C12-C15) poly(20+) ethoxylates		C	P	1	2G	Open No	No			Yes	O	No	A		No	
Alcohol (C6-C17)(secondary) poly(3-6)ethoxylates		A	P	2	2G	Open No	No			Yes	O	No	A		No	15.19.6
Alcohol (C6-C17) (secondary) poly(7-12)ethoxylates		B	P	3	2G	Open No	No			Yes	O	No	A		No	15.19.6, 16.2.6, 16.2.9
Alkane (C14-C17) sulfonic acid, sodium salt 60-65% in water		B	P	3	2G	Open No	No		MF		O	No	No		No	16.2.6
Alkanes (C6-C9)		(C)	P	3	2G	Cont. No	No			No	R	F	A		No	15.19.6
Alkaryl polyethers (C9-C20)		B	P	3	2G	Open No	No			Yes	O	No	A,B		No	15.19.6, 16.2.6
Alkyl acrylate-vinyl pyridine copolymer in toluene		C	P	3	2G	Cont. No	No			No	R	F	A		No	15.19.6
Alkyl benzene/-Indane/-Indane mixture (C12-C17 total carbon)		A	P	2	2G	Open No	No			Yes	O	No	A		No	15.19.6



PRODUCER	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
Alkyl (C3-C4) benzenes		A	P	3	2G	Cont.	No		No	R	F	A		No	15.19.6
Alkyl (C5-C8) benzenes		A	P	2	2G	Open	No		Yes	O	No	A		No	15.19.6
Alkylbenzene sulphonic acid	2584, 2586	C	S/P	3	2G	Open	No		Yes	O	No	A		No	16.2.7, 16.2.8
Alkylbenzene sulphonic acid, sodium salt solution		C	P	3	2G	Open	No	HF		O	No	No		No	16.2.7 to 16.2.9
Alkyl (C7-C9) nitrates	1098	B	S/P	2	2G	Open	No		Yes	O	No	A, B		No	15.19.6, 15.20, 16.6
Allyl alcohol	1100	B	S/P	2	2G	Cont.	No	T2	IIB	No	C	F-T		E	15.12, 15.17, 15.19
Allyl chloride		B	S/P	2	2G	Cont.	No	T2	IIA	No	C	F-T		E	15.12, 15.17, 15.19
Aluminium chloride (30% or less)/hydrochloric acid (20% or less) solution		D	S	3	1G	Cont.	No	HF		R	T	No		E (f)	15.11
2-(2-Aminoethoxy) ethanol	3055	D	S	3	2G	Open	No		Yes	O	No	A, D		No	15.19.6
N-Aminoethyl ethanamine		(D)	S	3	2G	Open	No	T2	IIA	Yes	O	A		No	
N-Aminoethylpiperazine	2815	D	S	3	2G	Cont.	No		Yes	R	T	A		No	15.19.6
2-Maleo-2-methyl-1-propanol (90% or less)		D	S	3	2G	Open	No		Yes	O	No	A		No	
Ammonia aqueous (28% or less)	2672(n)	C	S/P	3	2G	Cont.	No	HF		R	T	A, B, C		E (a)	
Ammonia nitrate solution (93% or less)		D	S	2	1G	Open	No	NF		O	No	No		No	15.2, 15.11.4, 15.11.6, 15.18, 15.19.6
Ammonium sulphide solution (45% or less)	2683	B	S/P	2	2G	Cont.	No		No	C	F-T	A		E	15.12, 15.16.1, 15.17, 15.19, 16.6
Ammonium thiocyanate (25% or less)/Ammonium thiosulphate (20% or less) solution		(C)	P	3	2G	Open	No	HF		O	No	No		No	
Ammonium thiosulphate solution (60% or less)		(C)	P	3	2G	Open	No	HF		O	No	No		No	16.2.9
Aryl acetate (all isomers)	1104	C	P	3	2G	Cont.	No		No	R	F	A		No	15.19.6
Anilins	1547	C	S/P	2	2G	Cont.	No	T1	IIA	Yes	C	T		No	15.12, 15.17, 15.19
Aviation alkylates (C8 paraffins and iso-paraffins)		(C)	P	3	2G	Cont.	No		No	R	F	B		No	15.19.6
BPT 95 - 120°C (bb)															
Benzene and mixtures having 10% benzene or more*	1114(t)	C	S/P	3	2G	Cont.	No	T1	IIA	No	C	F-T		No	15.12.1, 15.17, 15.19.6, 16.2.9

\* For mixtures containing no other components with safety hazards and where the pollution category is C or less.

PRODUCER	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
Benzene sulphonyl chloride	2225	D	S	3	2G	Cont. No	No		Yes	R	T	A, D	N1	No	15.19.6
Benzyl acetate		C	P	3	2G	Open No	No		Yes	O	No	A		No	
Benzyl alcohol		C	P	3	2G	Open No	No		Yes	O	No	A		No	
Benzyl chloride	1738	B	S/P	2	2G	Cont. No	No	T1	IIA	C	T	A, B		E	15.12, 15.13, 15.17, 15.19
Butene oligomer		B	P	3	2G	Open No	No		Yes	O	No	A		No	15.19.6
Butyl acetate (all isomers)	1123	C	P	3	2G	Cont. No	No		No	R	F	A		No	15.19.6
Butyl acrylate (all isomers)	2348	B	S/P	2	2G	Cont. No	No	TZ	IIB	No	R	F-T	A	No	15.13, 15.19.6, 16.6.1, 16.6.2
Butylamine (all isomers)	1125, 1214	C	S/P	2	2G	Cont. No	No		No	R	F-T	A	N1	E	15.12, 15.17, 15.19.6
Butylbenzene (all isomers)	2709	A	P	3	2G	Cont. No	No		No	R	F	A		No	15.19.6
Butyl benzyl phthalate		A	P	3	2G	Open No	No		Yes	O	No	A		No	15.19.6
Butyl butyrate (all isomers)		B	P	3	2G	Cont. No	No		No	R	F	A		No	15.19.6
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture		D	S	3	2G	Cont. No	No		Yes	R	No	A, D		No	15.13, 16.6.1, 16.6.2
1,2-Butylene oxide	3022	C	S/P	3	2G	Cont. Inert	Inert	T2	IIB	No	R	F	A, C	No	15.8.1 to .7, .12, .13, .16 to .19, .21, .25, .27, .29, 15.19.6
n-Butyl ether	1149	C	S/P	3	2G	Cont. Inert	Inert	T4	IIB	No	R	F-T	A	No	15.4.6, 15.12, 15.19.6
Butyl methacrylate		D	S	3	2G	Cont. No	No		IIA	No	R	F-T	A, D	No	15.13, 15.19.6, 16.6.1, 16.6.2
n-Butyl propionate	1914	C	P	3	2G	Cont. No	No		No	R	F	A		No	15.19.6
Butyraldehyde (all isomers)	1129	C	S/P	3	2G	Cont. No	No	T3	IIA	No	R	F-T	A	No	15.16.1, 15.19.6
Butyric acid	2920	D	S	3	2G	Cont. No	No		Yes	R	No	A	Y1	No	15.11.2 to 15.11.4, 15.11.6 to 15.11.8
Calcium alkyl (C9) phenol sulphide/ Polyolefin phosphorolipide mixture		A	P	2	2G	Open No	No		Yes	O	No	A, B		No	15.19.6
Calcium hypochlorite solution (15% or less)		C	S/P	3	2G	Cont. No	No	MF		R	No	No	M5	No	15.16.1
Calcium hypochlorite solution (more than 15%)		B	S/P	3	2G	Cont. No	No	MF		R	No	No	M5	No	15.16.1, 15.19.6
Calcium long chain alkyl salicylate (C13+)		C	P	3	2G	Open No	No		Yes	O	No	A, B		No	16.2.7, 16.2.8
Ceaphor oil		B	S/P	2	2G	Cont. No	No		IIA	No	R	F	A, B	No	15.19.6
Carbolic oil		A	S/P	2	2G	Cont. No	No		Yes	C	F-T	A		No	15.12, 15.19

PRODU_NAME	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
Carbon disulphide	1131	B	S/P	2	IG	Cont.	Perd+Inert	T6	IIC	No	C	F-T	C	E	15.3, 15.12, 15.19
Carbon tetrachloride	1846	B	S/P	3	2G	Cont.	No		HF	Yes	R	T	No	E	15.12, 15.17, 15.19.6
Cashew nut shell oil (untreated)		D	S	3	2G	Cont.	No				T	A,B		No	
Cetyl/Eicosyl methacrylate mixture		III	S	3	2G	Open	No			Yes	O	No	A,D	No	15.13, 16.6.1, 16.6.2
Chloroacetic acid (80% or less)	1750	C	S/P	2	2G	Cont.	No		HF		C	No	No	Y5	15.11.2, 15.11.4, 15.11.6 to 15.11.8, 15.12.3, 15.19, 16.2.9
Chlorinated paraffins (C10-C13)		A	P	1	2G	Open	No			Yes	O	No	A	No	15.19
Chlorobenzene	1134	B	S/P	3	2G	Cont.	No	T1	IIA	No	R	F-T	A,B	No	15.19.6
Chloroform	1888	B	S/P	3	2G	Cont.	No		HF		R	T	No	E	15.12, 15.19.6
Chlorohydrins (crude)		(D)	S	2	2G	Cont.	No		IIA	No	C	F-T	A	No	15.12, 15.19
4-Chloro-2-methylphenoxycetic acid, dimethylamine salt solution		(C)	P	3	2G	Open	No		HF		O	No	No	No	
o-Chloronitrobenzene	1578	B	S/P	2	2G	Cont.	No			Yes	C	T	A,B,D	No	15.12, 15.17 to 15.19, 16.2.6, 16.2.9, 16A.2.2
2- or 3-Chloropropionic acid	2511(n)	(C)	S/P	3	2G	Open	No			Yes	O	No	A	Y1	15.11.2 to 15.11.4, 15.11.6 to 15.11.8, 16.2.7 to 16.2.9
Chlorosulphonic acid	1754	C	S/P	1	2G	Cont.	No		HF		C	T	No	E	15.11.2 to 15.11.8, 15.12, 15.16.2, 15.19
m-Chlorotoluene	2238	B	S/P	3	2G	Cont.	No			No	R	F-T	A,B	No	15.19.6
o-Chlorotoluene	2238	A	S/P	3	2G	Cont.	No			No	R	F-T	A,B	No	15.19.6
p-Chlorotoluene	2238	B	S/P	2	2G	Cont.	No			No	R	F-T	A,B	No	15.19.6, 16.2.9
Chlorotoluenes (mixed isomers)	2238	A	S/P	2	2G	Cont.	No			No	R	F-T	A,B	No	15.19.6
Coal tar		A	S/P	2*	2G	Cont.	No	T2	IIA	Yes	R	No	B,D	No	15.19.6
Coal tar naphtha solvent		B	S/P	1	2G	Coqt.	No	T3	IIA	No	R	F-T	A,D	No	15.19.6
Coal tar pitch (molten)		D	S	3	IG	Cont.	No	T2	IIA	Yes	R	No	B,D	No	15.19.6
Cobalt naphthenate in solvent naphtha		A	S/P	2	2G	Cont.	No			No	R	F-T	A,D	No	15.19.6
Coconut oil fatty acid		C	P	3	2G	Open	No			Yes	O	No	A	No	16.2.7 to 16.2.9

PRODUCER_NAME	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	I_DASH3	J	K	L	M	N	O
Cresosote (coal tar)		A	S/P	2	2G	Open	No	T2	III	Yes	0	No	A,D	No		15.19.6
Cresosote (wood)		A	S/P	2	2G	Open	No	T2	III	Yes	0	No	A,D	No		15.19.6
Cresols (all isomers)	2076	A	S/P	2	2G	Open	No	T1	III	Yes	0	No	A,B	No		15.19.6
Cresylic acid, dephenolized		A	S/P	2	2G	Open	No			Yes	0	No	A,B	No		15.19.6
Cresylic acid, sodium salt solution		A	S/P	2	2G	Open	No			Yes	0	No	No	M8	No	15.19.6
Crotonaldehyde	1143	A	S/P	2	2G	Cont.	No	T3	IIIB	No	R	F-T	A	E		15.12, 15.16.1, 15.17, 15.19.6
1,5,9-Cyclododecatriene		A	S/P	1	2G	Cont.	No			Yes	R	T	A	M2	No	15.13, 15.19, 16.6.1, 16.6.2
Cycloheptane (bb)	2241	(C)	P	3	2G	Cont.	No			No	R	F	A	No		15.19.6
Cyclohexane (bb)	1145	(C)	P	3	2G	Cont.	No	T2	IIIA	No	R	F	A	No		15.19.6, 16.2.9
Cyclohexanone	1915	D	S	3	2G	Cont.	No			No	R	F-T	A	M5	No	15.19.6
Cyclohexanone, Cyclohexanol mixture		D	S	3	2G	Cont.	No			Yes	R	F-T	A	M5	No	15.19.6
Cyclohexyl acetate	2243	(B)	P	3	2G	Cont.	No			No	R	F	A	No		15.19.6
Cyclohexylamine	2357	C	S/P	3	2G	Cont.	No	T3	IIIA	No	R	F-T	A,C	M1	No	15.19.6
1,3-Cyclopentadiene dimer (molten)		B	P	2	2G	Cont.	No			No	R	F	A	No		15.19.6, 16.2.6, 16.2.9, 16A.2.2
Cyclopentane (bb)	1146	(C)	P	3	2G	Cont.	No			No	R	F	A	No		15.19.6
Cyclopentene	2246	(B)	P	3	2G	Cont.	No			No	R	F	A	No		15.19.6
p-Cymene (bb)	2046	C	P	3	2G	Cont.	No			No	R	F	A	No		15.19.6
Decanoic acid		C	P	3	2G	Open	No			Yes	0	No	A	No		16.2.7 to 16.2.9
Decane		B	P	3	2G	Cont.	No			No	R	F	A	No		15.19.6
Decyl acetate		(B)	P	3	2G	Open	No			Yes	0	No	A	No		15.19.6
Decyl acrylate		A	S/P	2	2G	Open	No	T3	IIIA	Yes	0	No	A,C,D	M2	No	15.13, 15.19.6, 16.6.1, 16.6.2
Decyl alcohol (all isomers)		B	P	3	2G	Open	No			Yes	0	No	A	No		15.19.6, 16.2.9(s)
Decyltetrahydrothiophene dioxide		A	S/P	2	2G	Cont.	No			Yes	R	T	A	No		15.19.6
Diethylamine		C	S/P	3	2G	Cont.	No	T2	IIIA	No	R	F-T	A,C,D	M4	No	15.19.6
Diethyl hydrogen phosphonate		B	P	3	2G	Open	No			Yes	0	No	A	No		15.19.6, 16.2.6
Diethyl phthalate		A	P	2	2G	Open	No			Yes	0	No	A	No		15.19.6
Dichlorobenzene (all isomers)		B	S/P	2	2G	Cont.	No	T1	IIIA	Yes	R	T	A,B,D	M5	No	15.19.6, 16.2.6(s), 16.2.9(r), 16A.2.2(s)
1,1-Dichloroethane	2362	D	S	3	2G	Cont.	No	T2	IIIA	No	R	F-T	A	E		15.19.6

PRODU_NAME	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O	
Dichloroethyl ether	1916	B	S/P	2	2G	Cont.	No	T2	IIA	No	R	F-T	A	M5	No	15.19.6
1,6-Dichlorohexane		B	S/P	2	2G	Cont.	No			No	R	T	A,B		No	15.19.6
2,2'-Dichloroisopropyl ether	2490	C	S/P	2	2G	Cont.	No			Yes	B	T	A,C,D	M5	No	15.12, 15.17, 15.19
Dichloromethane	1593	D	S	3	2G	Cont.	No	T1	IIA	Yes	R	T	No		No	
2,4-Dichlorophenol	2021	A	S/P	2	2G	Cont.	DrY			Yes	R	T	A	M1	No	15.19.6
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution		A	S/P	3	2G	Open	No		RF		O	No	No	M1	No	15.19.6
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)		A	S/P	3	2G	Open	No		RF		O	No	No	M1	No	15.19.6
2,4-Dichlorophenoxyacetic acid, trisopropanolamine salt solution		A	S/P	3	2G	Open	No		RF		O	No	No	M1	No	15.19.6
1,1-Dichloropropane	1279	C	S/P	2	2G	Cont.	No	T1	IIA	No	R	F-T	A,B	Z	No	15.12, 15.19.6
1,2-Dichloropropane		C	S/P	2	2G	Cont.	No			No	R	F-T	A,B	Z	No	15.12, 15.19.6
1,3-Dichloropropane	2047	D	S	2	2G	Cont.	No	T1	IIA	No	R	F-T	A,B		No	15.12, 15.19.6
1,3-Dichloropropene		B	S/P	2	2G	Cont.	No	T2	IIA	No	C	F-T	A,B		E	15.12, 15.17 to 15.19
Dichloropropene/Dichloropropane mixtures		B	S/P	2	2G	Cont.	No			No	C	F-T	A,B,D		E	15.12, 15.17 to 15.19
2,2-Dichloropropionic acid		D	S	3	2G	Cont.	DrY			Yes	R	No	A	Y5	No	15.11.2, 15.11.4, 15.11.6 to 15.11.8
Diethanolamine	1154	D	S	3	2G	Open	No	T1	IIA	Yes	O	No	A	M2	No	
Diethylamine	2686	C	S/P	3	2G	Cont.	No	T2	IIA	No	R	F-T	A	M1	E	15.12, 15.19.6
Diethylaminoethanol		C	S/P	3	2G	Cont.	No			No	R	F-T	A,C	M1	No	15.19.6
2,6-Diethylamine	2049	C	S/P	3	2G	Open	No			Yes	O	No	B,C,D	M4	No	15.13.6, 16.2.9
Diethylbenzene	2079	A	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
Diethylenetriamine	1155	D	S	3	2G	Open	No	T2	IIA	Yes	O	No	A	M2	No	
Diethyl ether	1902	III	S	2	1G	Cont.	Inert	T4	IIB	No	C	F-T	A	M7	E	15.4, 15.14, 15.19
Di-(2-ethylhexyl) phosphoric acid		C	S/P	3	2G	Open	No			Yes	O	No	A,D	M2	No	
Diethyl phthalate	1594	C	P	3	2G	Open	No			Yes	O	No	A		No	
Diethyl sulphate		(B)	S/P	2	2G	Cont.	No			Yes	C	T	A	M3	No	15.19.6

PRODU_NAME	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
Diglycidyl ether of bisphenol A		B	P	3	2G	Open	No		Yes	0	No	A	No	No	15.19.6, 16.2.6
Diglycidyl ether of bisphenol F		B	P	3	2G	Open	No		Yes	0	No	A	No	No	15.19.6, 16.2.6
Di-n-hexyl adipate	2361	B	P	3	2G	Open	No		Yes	0	No	A	No	No	15.19.6
Diisobutylamine	2050	(C)	S/P	2	2G	Cont.	No		No	R	F-T	A,C,D	M1	No	15.12.3, 15.19.6
Diisobutylene		B	P	3	2G	Cont.	No		No	R	F	A	No	No	15.19.6
Diisobutyl phthalate		B	P	3	2G	Open	No		Yes	0	No	A	No	No	15.19.6, 16.2.6
Diisopropylamine		C	S/P	3	2G	Open	No	T2	Yes	0	No	A	No	No	16.2.7 to 16.2.9
Diisopropylamine	1158	C	S/P	2	2G	Cont.	No	T2	No	C	F-T	A	No	E	15.12, 15.19
Diisopropylbenzene (all isomers)		A	P	2	2G	Open	No		Yes	0	No	A	No	No	15.19.6
N,N-Dimethylacetamide solution (40% or less)		D	S	3	2G	Cont.	No		Yes	R	T	B	M4	No	15.12.1, 15.17
Dimethyl adipate		B	P	3	2G	Open	No		Yes	0	No	A	No	No	15.19.6, 16.2.9
Dimethylamine solution (45% or less)	1160	C	S/P	3	2G	Cont.	No	T2	No	R	F-T	A,C,D	M1	E	15.12, 15.19.6
Dimethylamine solution (greater than 45% but not greater than 55%)	1160	C	S/P	2	2G	Cont.	No		No	C	F-T	A,C,D	M1	E	15.12, 15.17, 15.19
Dimethylamine solution (greater than 55% but not greater than 65%)	1160	C	S/P	2	2G	Cont.	No		No	C	F-T	A,C,D	M1	E	15.12, 15.14, 15.17, 15.19
N,N-Dimethylcyclohexylamine	2264	C	S/P	2	2G	Cont.	No		No	R	F-T	A,C	M1	No	15.12, 15.17, 15.19.6
Dimethylcyanolamine	2051	D	S	3	2G	Cont.	No	T3	No	R	F-T	A,D	M2	No	15.19.6
Dimethylformamide	2255	D	S	3	2G	Cont.	No	T2	No	R	F-T	A,D	No	No	15.19.6
Dimethyl glutarate		C	P	3	2G	Open	No		Yes	0	No	A	No	No	15.12.1
Dimethyl hydrogen phosphite		(B)	S/P	3	2G	Cont.	No		Yes	R	T	A,D	No	No	16.2.8, 16.2.9
Dimethyl octanoic acid		(C)	P	3	2G	Open	No		Yes	0	No	A	No	No	16.2.5
Dimethyl phthalate		C	P	3	2G	Open	No		Yes	0	No	A	No	No	15.12, 15.17, 15.19, 15.21
Dimethyl succinate		C	P	3	2G	Open	No		Yes	0	No	A	No	No	15.12, 15.17, 15.19, 15.21
Dinitrotoluene (mixture)	1600	A	S/P	2	2G (c)	Cont.	No	T2	Yes	C	T	A	No	No	15.12, 15.17, 15.19, 15.21
1,4-Dioxane	1165	D	S	2	2G	Cont.	No		No	C	F-T	A	No	No	15.12, 15.19



PRODU_NAME	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	I_DASH3	J	K	L	M	N	O
Ethanolamine	2491	D	S	3	2G	Open	No	T2	IIA	Yes	O	F-T	A	N2	No	
2-Ethoxyethyl acetate	1172	C	P	3	2G	Cont.	No				R	F	A		No	15.19.6
Ethyl acrylate	1917	A	S/P	2	2G	Cont.	No	T2	IIB	No	R	F-T	A		E	15.13, 15.19.6, 16.6.1, 16.6.2
Ethylamine	1036	(C)	S/P	2	1G	Cont.	No	T2	IIA	No	C	F-T	C,D		E	15.12, 15.14, 15.19.6
Ethylamine solutions (72% or less)	2270	(C)	S/P	2	2G	Cont.	No				C	F-T	A,C		E	15.12, 15.14, 15.17, 15.19
Ethyl amyl ketone	2271	C	P	3	2G	Cont.	No				R	F	A		No	15.19.6
Ethylbenzene	1175	B	P	3	2G	Cont.	No				R	F	A		No	15.19.6
N-Ethylbutylamine		(C)	S/P	3	2G	Cont.	No				R	F-T	A		No	15.12.3, 15.19.6
Ethyl butyrate	1180	C	P	3	2G	Cont.	No				R	F	A		No	15.19.6
Ethylcyclohexane (bb)		(C)	P	3	2G	Cont.	No				R	F	A		No	15.19.6
N-Ethylcyclohexylamine		D	S	3	2G	Cont.	No	T2	IIA	No	R	F-T	A		No	15.19.6
Ethylene chlorohydrin	1135	C	S/P	2	2G	Cont.	No				C	F-T	A,D		E	15.12, 15.17, 15.19
Ethylene cyanohydrin		(D)	S	3	2G	Open	No				O	No	A		No	
Ethylenediamine	1604	C	S/P	2	2G	Cont.	No	T2	IIA	No	R	F-T	A		No	15.19.6, 16.2.9
Ethylene dibromide	1605	B	S/P	2	2G	Cont.	No				C	T	No		E	15.12, 15.19.6, 16.2.9
Ethylene dichloride	1184	B	S/P	2	2G	Cont.	No	T2	IIA	No	R	F-T	A,B		No	15.19
Ethylene glycol butyl ether acetate		(C)	P	3	2G	Open	No				O	No	I		No	
Ethylene glycol diacetate		C	P	3	2G	Open	No				O	No	A		No	
Ethylene glycol methyl ether acetate		C	P	3	2G	Open	No				O	No	I		No	
Ethylene glycol monoalkyl ethers		D	S	3	2G	Cont.	No				R	F	A		No	15.19.6
Ethylene oxide/propylene oxide mixture with an Ethylene oxide content of not more than 30% in weight	2981	C	S/P	2	1G	Cont.	Inert	T2	IIB	No	C	F-T	A,C		No	15.8, 15.12, 15.14, 15.19
Ethyl-3-oxopropionate		C	P	3	2G	Cont.	No				R	No	A		No	15.19.6
2-Ethylhexyl acrylate		B	S/P	3	2G	Open	No	T3	IIB	Yes	O	No	A		No	15.13, 15.19.6, 16.6.1, 16.6.2
2-Ethylhexylamine	2276	B	S/P	2	2G	Cont.	No				R	F-T	A		No	15.12, 15.19.6
Ethylidene norbornene		B	S/P	3	2G	Cont.	No				R	F-T	A,D		No	15.12.1, 15.16.1, 15.19.6
Ethyl methacrylate	2277	(D)	S	3	2G	Cont.	No	T2	IIB	No	R	F-T	A,D		No	15.13, 15.19.6, 16.6.1, 16.6.2



PRODU_NAME	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	I_DASH3	J	K	L	M	N	O
o-Ethylphenol		(A)	S/P	3	2G	Open	No	T1	IIA	Yes	O	No	B		No	15.19.6
2-Ethyl-3-propylacrolein		A	S/P	3	2G	Cont.	No		IIA	No	R	F-T	A		No	15.19.6
Ethyltoluene		(B)	P	3	2G	Cont.	No		HF	No	O	P	A		No	15.19.6
Ferric chloride solutions	2582	C	S/P	3	2E	Open	No		HF	No	R	T	No		No	15.11, 15.19.6, 16.2.9
Ferric nitrate/Nitric acid solution		C	S/P	2	2G	Cont.	No		HF	No	R	T	No		E	15.11, 15.19
Fluorosilicic acid (20-30%) in water solution	1778	C	S/P	3	1G	Cont.	No		HF	No	R	T	No		E	15.11
Formaldehyde solutions (45% or less)	1199(d) 2209	C	S/P	3	2G	Cont.	No	T2	IIB	No	R	F-T	A		E (e)	15.16.1, 15.19.6, 16.2.9
Formic acid	1779	D	S	3	2G	Cont.	No	T1	IIA	No	R	T(v)	A	Y2,Y3	E	15.11.2 to 15.11.4, 15.11.6 to 15.11.8, 15.19.6
Fumaric adduct of rosin, water dispersion		B	P	3	2G	Open	No			Yes	O	No	No		No	15.19.6, 16.2.6
Furfural	1199	C	S/P	3	2G	Cont.	No	T2	IIB	No	R	F-T	A		No	15.16.1, 15.19.6
Furfuryl alcohol	2874	C	P	3	2G	Open	No			Yes	O	No	A		No	
Glutaraldehyde solutions (50% or less)		D	S	3	2G	Open	No		HF	No	O	No	No		No	15.16.1
Glycidyl ester of C10 trialkylacetic acid		B	P	3	2G	Open	No			Yes	O	No	A		No	15.19.6
Heptane (all isomers) (bb)	1205	(C)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
Heptanol (all isomers) (q)		C	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
Heptene (all isomers) (bb)		C	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
Heptyl acetate		(B)	P	3	2G	Open	No			Yes	O	No	A		No	15.19.6
Hexamethylenediamine solution	1783	C	S/P	3	2G	Cont.	No			Yes	R	T	A	M2	No	15.19.6, 16.2.9
Hexamethylenimine	2493	C	S/P	2	2G	Cont.	No			No	R	F-T	A,C	M1	No	15.19.6
Hexane (all isomers) (bb)	1208	(C)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
Hexane (all isomers) (bb)		(C)	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
Hexyl acetate	1233	B	P	3	2G	Cont.	No			No	R	F	A		No	15.19.6
Hydrochloric acid	1789	D	S	3	1G	Cont.	No		HF	No	R	T	No		E (f)	15.11
Hydrogen peroxide solutions (over 8% but not over 60%)	2014, 2984	C	S/P	3	2G	Cont.	No		HF	No	C	No	No		No	15.5.14 to 15.5.26, 15.18, 15.19.6
Hydrogen peroxide solutions (over 6% but not over 70%)	2015	C	S/P	2	2G	Cont.	No		HF	No	C	No	No		No	15.5.1 to 15.5.13, 15.19.6

PRODUC_NAME	DM_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
2-Hydroxyethyl acrylate		B	S/P	2	2G	Cont.	No		Yes	C	T	A			15.12, 15.13, 15.19.6, 16.6.1, 16.6.2
2-Hydroxy-4-(methylthio)butanoic acid		C	P	3	2G	Open	No		Yes	O	Mo	A			16.2.7, 16.2.8
Isophoronediamine	2289	D	S	3	2G	Cont.	No		Yes	R	T	A	N2		No
Isophorone diisocyanate	2290	B	S/P	2	2G	Cont.	DrT		Yes	C	T	A,B,D	M5		15.12, 15.16.2, 15.17, 15.19.6
Isoprene	1218	C	S/P	3	2G	Cont.	No	T3	IIIB	R	F	B			15.13, 15.14, 15.19.6, 16.6.1, 16.6.2
Isopropanolamine		C	S/P	3	2G	Open	No	T2	IIA	Yes	O	F-T	A	N2	16.2.8, 16.2.9
Isopropylamine	1221	C	S/P	2	2G	Cont.	No	T2	IIA	Mo	C	F-T	C,D	N2	15.12, 15.14, 15.19
Isopropylcyclohexane (bb)		(C)	P	3	2G	Cont.	No		Mo	R	F	A			15.19.6, 16.2.7, 16.2.8
Isopropyl ether	1159	D	S	3	2G	Cont.	Inert		Mo	R	F	A			15.4.6, 15.13.3, 15.19.6
Lactonitrile solution (80% or less)		B	S/P	2	1G	Cont.	No		Yes	C	T	A,C,D	Y1		15.1, 15.12, 15.17 to 15.19, 16.2.6, 16.6
Lauric acid		B	P	3	2G	Open	No		Yes	O	Mo	A			15.19.6, 16.2.6, 16.2.9, 16.2.2
Liquid chemical wastes		A	S/P	2	2G	Cont.	No		Mo	C	F-T	A			15.12, 15.19.6, 20.5.1
Long chain alkaryl polyether (C11-C20)		C	P	3	2G	Open	No		Yes	O	Mo	A,B			16.2.7, 16.2.8
Long chain polyetheramine in alkyl (C2-C4) benzenes		C	P	3	2G	Cont.	No		Mo	R	F	A			15.19.6, 16.2.7, 16.2.8
Long chain polyetheramine in aromatic solvent		C	P	3	2G	Cont.	No		Mo	R	F	A			15.19.6, 16.2.7, 16.2.8
Magnesium long chain alkyl salicylate (C11+)		C	P	3	2G	Open	No		Yes	O	Mo	A,B			16.2.7, 16.2.8
Maleic anhydride	2215	D	S	3	2G	Cont.	No		Yes	R	Mo	A(g),C			No
Mercaptobenzothiazol, sodium salt solution		B	S/P	3	2G	Open	No		HF	O	Mo	Mo	M1		15.19.6, 16.2.9
Merfityl oxide	1229	D	S	3	2G	Cont.	No	T2	IIIB	Mo	R	F-F	A		15.19.6
Metam sodium solution		A	S/P	2	2G	Open	No		HF	O	Mo	Mo	M1		15.19.6
Metacrylic acid	2531	D	S	3	2G	Cont.	No		Yes	R	T	A	Y1		15.13, 16.6.1
Metacrylic resin in Ethylene dichloride		B	S/P	2	2G	Cont.	No	T2	IIA	Mo	R	F-T	A,B	H4	15.19, 16.2.6

PRODUC_NAME	DN_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
Methacrylonitrile	3079	D	S	2	2G	Cont.	No			C	F-T	A	M,Z	E	15.17, 15.13, 15.17, 15.19
Methyl acrylate	1919	B	S/P	2	2G	Cont.	No	T1	IIB	R	F-T	A		E	15.13, 15.19.6, 16.6.1, 16.6.2
Methylamine solutions (42% or less)	1235	C	S/P	2	2G	Cont.	No			C	F-T	A,C,D	M1	E	15.12, 15.17, 15.19
Methylmethyl acetate	1233	(C)	P	3	2G	Cont.	No			R	F	A		No	15.19.6
Methylmethyl alcohol	2053	(C)	P	3	2G	Cont.	No			R	F	A		No	15.19.6
Methyl butyrate	1237	(C)	P	3	2G	Cont.	No			R	F	A		No	15.19.6
Methylcyclohexane (bb)	2296	(C)	P	3	2G	Cont.	No			R	F	A		No	15.19.6
Methylcyclopentadecane dimer		(B)	P	3	2G	Cont.	No			R	F	B		No	15.19.6
Methyl diethanolamine		D	S	3	2G	Open	No			Yes	O	A	M2	No	
2-Methyl-6-ethyl aniline		C	S/P	3	2G	Open	No			Yes	O	A,D		No	
2-Methyl-5-ethyl pyridine	2300	(B)	S/P	3	2G	Open	No		IIA	Yes	O	A,D	H4	No	15.19.6
Methyl formate	1243	D	S	2	2G	Cont.	No			No	F-T	A		E	15.12, 15.14, 15.19
Methyl heptyl ketone		B	P	3	2G	Cont.	No			No	F	A		No	15.19.6
2-Methyl-2-hydroxy-3-butene		III	S	3	2G	Cont.	No		IIA	No	F-T	A,B,D	M5	No	15.19.6
Methyl methacrylate	1247	D	S	2	2G	Cont.	No	T2	IIA	No	F-T	A		No	15.13, 15.19.6, 16.6.1, 16.6.2
Methyl naphthalene (molten)		A	S/P	2	2G	Cont.	No			Yes	R	A,D		No	15.19.6
2-Methylpyridine	2313	D	S	2	2G	Cont.	No			No	F	A	M4	No	15.12.3, 15.19.6
3-Methylpyridine	2313	C	S/P	2	2G	Cont.	No			No	F	A,C	M4	No	15.12.3, 15.19
4-Methylpyridine	2313	D	S	2	2G	Cont.	No			No	F-T	A	M4	No	15.12.3, 15.19, 16.2.9
Methyl salicylate		(B)	P	3	2G	Open	No			Yes	O	A		No	15.19.6
alpha-Methylstyrene	2303	A	S/P	3	2G	Cont.	No			No	R	A,D**		No	15.13, 15.19.6, 16.6.1, 16.6.2
Morpholine	2054	D	S	3	2G	Cont.	No			T2	F	A		No	15.19.6
Motor fuel anti-knock compounds (containing lead alkyls)	1649	A	S/P	1	1G	Cont.	No			T4	F-T	A,C		E	15.6, 15.12, 15.18, 15.19
Naphthalene (molten)	2304	A	S/P	2	2G	Cont.	No			T1	R	A,D		No	15.19.6
Naphthenic acids		A	P	2	2G	Open	No			Yes	O	A		No	15.19.6
Neodecanoic acid		C	P	3	2G	Open	No			Yes	O	A		No	16.2.8
Nitrating acid (mixture of sulphuric acid and nitric acids)	1796	(C)	S/P	2	2G	Cont.	No		MF	C	T	No		E	15.11, 15.16.2, 15.17, 15.19
Nitric acid (less than 70%)	2031	C	S/P	2	2G	Cont.	No		MF	R	T	No		E	15.11, 15.19

PRODUC	UN NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
Nitric acid (70% and over)	2031, 2032(b)	C	S/P	2	2G	Cont.	No	MF		C	T	Mo			15.11, 15.19
Nitrobenzene	1662	B	S/P	2	2G	Cont.	No	TI	IIA	Yes	C	T	A,D		15.12, 15.17 to 15.19, 16.2.9
o-Nitrophenol (molten)	1663	B	S/P	2	2G	Cont.	No			Yes	C	T	A,D		15.12, 15.19.6, 16.2.6, 16.2.9, 16A.2.2
1- or 2-Nitropropane	2600	D	S	3	2G	Cont.	No	TZ	IIB	No	R	F-T	A		15.19.6
Nitropropane (60%)/Nitroethane (40%) mixture		D	S	3	2G	Cont.	No			No	R	F-T	A(u)		15.19.6
o- or p-Nitrotoluenes	1664	B	S/P	2	2G	Cont.	No	IIB		Yes	C	T	A,B		15.12, 15.17, 15.19, 16.2.9
Nonane (all isomers) (bb)	1920	(C)	P	3	2G	Cont.	No			No	R	F	B,C		15.19.6
Nonane (all isomers)		B	P	3	2G	Cont.	No			No	R	F	A		15.19.6
Nonyl acetate		(C)	P	3	2G	Open	No			Yes	O	Mo	A		15.19.6
Nonyl alcohol (all isomers)		(C)	P	3	2G	Open	No			Yes	O	Mo	A		15.19.6
Nonyl phenol		A	P	2	2G	Open	No			Yes	O	Mo	A		15.19.6
Nonyl phenol poly(4-12) ethoxylates		B	P	3	2G	Open	No			Yes	O	Mo	A		15.19.6, 16.2.6, 16.2.9, 16A.2.2(bb)
Noxious liquid, N.F. (1) n.o.s. (trade name ... contains ...)		A	P	1	2G	Open	No			Yes	O	Mo	A		15.19
Noxious liquid, N.F. (1) n.o.s. (trade name ... contains ...)		A	P	1	2G	Cont.	No			Mo	R	F	A		15.19
Noxious liquid, N.F. (2) n.o.s. (trade name ... contains ...)		A	P	2	2G	Open	No			Yes	O	Mo	A		15.19.6
Noxious liquid, N.F. (3) n.o.s. (trade name ... contains ...)		A	P	2	2G	Cont.	No			Mo	R	F	A		15.19.6
Noxious liquid, N.F. (4) n.o.s. (trade name ... contains ...)		A	P	2	2G	Cont.	No			Mo	R	F	A		15.19.6
Noxious liquid, N.F. (5) n.o.s. (trade name ... contains ...)		B	P	2	2G	Open	No			Yes	O	Mo	A		15.19.6, [16.2.6, 16.2.9]**
Noxious liquid, N.F. (6) n.o.s. (trade name ... contains ...)		B	P	2	2G	Open	No			Yes	O	Mo	A		15.19.6, [16.2.6]**, 16.2.9, 16A.2.2

\* In case of a specific n.o.s. cargo assessed as falling within this n.o.s. group that is carried on a ship, this entry, including the cargo's trade name and one or two principal components, should be provided in the shipping document. Abbreviations used mean:

M.F.: Flashpoint exceeding 60°C (closed cup test) S.T.: Ship type  
 F: Flashpoint not exceeding 60°C (closed cup test) Cat.: Pollution category  
 n.o.s.: Not otherwise specified m.p.: Melting point

\*\* Only certain alcohol resistant foams are effective

PRODU_NAME	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
Noxious liquid, F, (7) n.o.s. (trade name ..., contains ...) S.T.2, Cat.B*	B	P	2	2G	Cont.	No	No	No	No	R	F	A	No	No	15.19.6, [16.2.6, 16.2.9]**
Noxious liquid, F, (8) n.o.s. (trade name ..., contains ...) S.T.2, Cat.B*, mp 15°C†	B	P	2	2G	Cont.	No	No	No	No	R	F	A	No	No	15.19.6, [16.2.6]**, 16.2.9, 16A.2.2
Noxious liquid, H.F, (9) n.o.s. (trade name ..., contains ...) S.T.3, Cat.A*	A	P	3	2G	Open	No	No	Yes	O	No	A	A	No	No	15.19.6
Noxious liquid, F, (10) n.o.s. (trade name ..., contains ...) S.T.3, Cat.A*	A	P	3	2G	Cont.	No	No	No	No	R	F	A	No	No	15.19.6
Noxious liquid, H.F, (11) n.o.s. (trade name ..., contains ...) S.T.3, Cat.B*	B	P	3	2G	Open	No	No	Yes	O	No	A	A	No	No	15.19.6, [16.2.6, 16.2.9]**
Noxious liquid, H.F, (12) n.o.s. (trade name ..., contains ...) S.T.3, Cat.B*, mp 15°C†	B	P	3	2G	Open	No	No	Yes	O	No	A	A	No	No	15.19.6, [16.2.6]**, 16.2.9, 16A.2.2
Noxious liquid, F, (13) n.o.s. (trade name ..., contains ...) S.T.3, Cat.B*	B	P	3	2G	Cont.	No	No	No	No	R	F	A	No	No	15.19.6, [16.2.6, 16.2.9]**
Noxious liquid, F, (14) n.o.s. (trade name ..., contains ...) S.T.3, Cat.B*, mp 15°C†	B	P	3	2G	Cont.	No	No	No	No	R	F	A	No	No	15.19.6, [16.2.6]**, 16.2.9, 16A.2.2
Noxious liquid, H.F, (15) n.o.s. (trade name ..., contains ...) S.T.3, Cat.C*	C	P	3	2G	Cont.	No	No	Yes	O	No	A	A	No	No	[16.2.7 to 16.2.9]**
Noxious liquid, F, (16) n.o.s. (trade name ..., contains ...) S.T.3, Cat.C*	C	P	3	2G	Cont.	No	No	No	No	R	F	A	No	No	[16.2.7 to 16.2.9]**

\* In case of a specific n.o.s. cargo assessed as falling within this n.o.s. group that is carried on a ship, this entry, including the cargo's trade name and one or two principal components, should be provided in the shipping document. Abbreviations used mean:

M.F.: Flashpoint exceeding 60°C (closed cup test)  
 F: Flashpoint not exceeding 60°C (closed cup test)  
 n.o.s.: Not otherwise specified  
 S.I.: Ship type  
 Cat.: Pollution category  
 m.p.: Melting point

\*\* For high viscosity or high melting point cargoes.

PRODU_NAME	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
Octane (all isomers) (bb)	1262	(C) P	3	3	2G	Cont. No			No	R	F	A		No	15.19.6
Octanol (all isomers)		C	P	3	2G	Open No			Yes	O	No	A		No	
Octene (all isomers)		B	P	3	2G	Cont. No			No	R	F	A		No	15.19.6
n-Octyl acetate		C	P	3	2G	Open No			Yes	O	No	A		No	
Octyl aldehydes	1191	(B) P	3	2G	Cont. No				No	R	F	A		No	15.19.6, 16.2.9 . .
Olefin mixtures (C5-C7) (bb)		C	P	3	2G	Cont. No			No	R	F	A		No	15.19.6
Olefin mixtures (C5-C15)		B	P	3	2G	Cont. No			No	R	F	A		No	15.19.6
alpha-Olefins (C6-C18) mixtures		B	P	3	2G	Cont. No			No	R	F	A		No	15.19.6, 16.2.6, 16.2.9
Oleum	1831	C	S/P	2	2G	Cont. No		MF		C	T	No		E	15.11.2 to 15.11.8, 15.12.1, 15.16.2, 15.17, 15.19, 16.2.7, 16.2.8
Oleylamine		A	S/P	2	2G	Cont. No			Yes	R	T	A		No	15.19.6
Palm kernel acid oil		C	P	3	2G	Open No			Yes	O	No	A, B		No	16.2.7 to 16.2.9
Paraldehyde	1264	C	S/P	3	2G	Cont. No		T3	IIB	No	R	F	A	No	15.19.6, 16.2.9
Pentachloroethane	1669	B	S/P	2	2G	Cont. No			MF	R	T	No		No	15.12, 15.17, 15.19.6
1,3-Pentadiene		C	S/P	3	2G	Cont. No			No	R	F-T	A, B		No	15.13, 15.19.6, 16.6
Pentane (all isomers) (bb)	1265	(C) P	3	2G	Cont. No				No	R	F	A		No	15.14, 15.19.6
Pentene (all isomers) (bb)		C	P	3	2G	Cont. No			No	R	F	A		No	15.14, 15.19.6
n-Pentyl propionate		C	P	3	2G	Cont. No			No	R	F	A		No	15.19.6
Perchloroethylene	1897	B	S/P	3	2G	Cont. No			MF	R	T	No		No	15.12.1, 15.12.2, 15.19.6
Phenol	2312	C	S/P	2	2G	Cont. No		T1	IIA	Yes	C	T	A	No	15.12, 15.19, 16.2.7, 16.2.8, 16.2.9
1-Phenyl-1-xylyl ethane (bb)		C	P	3	2G	Open No			Yes	O	No	A, B		No	15.11.1 to 15.11.4, 15.11.6 to 15.11.8
Phosphoric acid	1805	D	S	3	2G	Open No			MF	O	No	No		No	
Phosphorus, yellow or white	1361, 2447	A	S/P	1	1G	Cont. No			No	(k)	C	No	C	E	15.7, 15.19
Phthalic anhydride (molten)	2214	C	S/P	3	2G	Cont. No		T1	IIA	Yes	R	No	A, D	No	16.2.7 to 16.2.9
alpha-Pinene		A	P	3	2G	Cont. No			No	R	F	A		No	15.19.6
beta-Pinene	2368	B	P	3	2G	Cont. No			No	R	F	A		No	15.19.6
Pine oil	1272	C	P	3	2G	Open No			Yes	O	No	A		No	16.2.7, 16.2.8
Poly(2-cyclic aromatics)		A	P	2	2G	Cont. No			Yes	R	No	A, D		No	15.19.6
Polyalkyl (C18-C22) acrylate in Xylene		C	P	3	2G	Cont. No			No	R	F	A		No	15.19.6, 16.2.7, 16.2.8

PRODUCER	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
Polyalkylene oxide polyol	2734(1) 2735	C	P	3	2g	Open	No		Yes	O	No	A	No		16.2.7, 16.2.8
Polyethylene polyamines		(C)	S/P	3	2g	Open	No		Yes	O	No	A	N2		16.2.9
Polyferric sulphate solution		(C)	S/P	3	2g	Open	No	NF		O	No	No	Y4		
Polyethylene polyphenyl isocyanate	2206(1) 2207	D	S	2	2g	Cont.	D7		Yes(b)	C	T(b)	A	N5		15.12, 15.16.2, 15.19.6
Polyolefinamine in alkyl (C2-C4) benzene		(C)	P	3	2g	Cont.	No		No	R	F	A			15.19.6, 16.2.7, 16.2.8
Polyolefinamine in aromatic solvent		(C)	P	3	2g	Cont.	No		No	R	F	A			15.19.6, 16.2.7, 16.2.8
Polyolefin phosphosulphide - barium derivative (C28-C250)		C	P	3	2g	Open	No		Yes	O	No	A,B			16.2.7, 16.2.8
Potassium chloride solution (10% or more)		C	P	3	2g	Open	No	NF		O	No	No			
Potassium hydroxide solution	1814	C	S/P	3	2g	Open	No	NF		O	No	No			16.2.9
Potassium oleate		(C)	P	3	2g	Open	No		Yes	O	No	A	NB		15.19.6
n-Propanolamine		C	S/P	3	2g	Open	No		Yes	O	No	A,D	N2		16.2.9
Beta-Propiolactone		D	S	2	2g	Cont.	No	IIA		R	T	A			
Propionaldehyde	1275	C	S/P	3	2g	Cont.	No		No	R	F-T	A			15.16.1, 15.17, 15.19.6
Propionic acid	1848	D	S	3	2g	Cont.	No	IIA		R	F	A	Y1		15.11.2 to 15.11.4, 15.11.6 to 15.11.8, 15.19.6
Propionic anhydride	2496	C	S/P	3	2g	Cont.	No	T2	IIA	Yes	R	A	Y1		
Propionitrile	2404	C	S/P	2	1g	Cont.	No	T1	IIB	No	C	F-T			15.12, 15.17 to 15.19
n-Propylamine	1277	C	S/P	2	2g	Cont.	Inert	T2	IIA	No	C	F-T	N2		15.12, 15.19
Propylbenzene (all isomers)		A	P	3	2g	Cont.	No		No	R	F	A			15.19.6
n-Propyl chloride	1278	D	S	3	2g	Cont.	No		No	R	F	A,B			15.19.6
Propylene dimer (bb)		(C)	P	3	2g	Cont.	No		No	R	F	A			15.19.6
Propylene oxide	1280	C	S/P	2	2g	Cont.	Inert	T2	IIB	No	C	F-T	Z		15.8, 15.12.1, 15.14, 15.19
Propylene tetramer	2850	B	P	3	2g	Cont.	No		No	R	F	A			15.19.6
Propylene trimer	2057	B	P	3	2g	Cont.	No		No	R	F	A			15.19.6
Pyridine	1282	D	S	3	2g	Cont.	No	T1	IIB	No	R	F	N4		15.19.6
Ronlin		B	P	3	2g	Open	No		Yes	O	No	A			15.19.6, 16.2.6, 16.2.9, 16A.2.2

PRODU_NAME	UN_NUMBER	C	D	E	F	G	H	I	J	K	L	M	N	O
Resin soap (disproportionated) solution		B	P	3	2G	Open	No		Yes	O	No	A	No	15.19.6
Sodium aluminate solution	1819	D	S	3	2G	Open	No	RF		O	No	No	NI	No
Sodium borohydride (15% or less)/Sodium hydroxide solution		C	S/P	3	2G	Open	No	RF		O	No	No	NI	16.2.7
Sodium chlorate solution (50% or less)	2428	III	S	3	2G	Open	No	RF		O	No	No	No	15.9, 15.16.1, 15.19.6
Sodium dichromate solution (70% or less)		C	S/P	2	2G	Open	No	RF		C	No	No	M2	15.12.3, 15.19
Sodium hydrogen sulphide (6% or less)/Sodium carbonate (3% or less) solution		B	P	3	2G	Open	No	RF		O	No	No	No	15.19.6
Sodium hydrogen sulphite solution (45% or less)	2693	D	S	3	2G	Open	No	RF		O	No	No	No	No
Sodium hydrosulphide solution (45% or less)	2949	B	S/P	3	2G	Cont.	Vent or Pad(gas)	RF		R	T	No	No	15.16.1, 15.19.6, 16.2.9
Sodium hydrosulphide/ammonium sulphide solution		B	S/P	2	2G	Cont.	No		No	C	F-T	A	NI	E
Sodium hydroxide solution	1824	D	S	3	2G	Open	No	RF		O	No	No	M3	15.12, 15.14, 15.16.1, 15.17, 15.19, 16.6
Sodium hypochlorite solution (15% or less)	1791	C	S/P	3	2G	Cont.	No	RF		R	No	No	M5	15.16.1
Sodium nitrite solution	1500	B	S/P	2	2G	Open	No	RF		O	No	No	No	15.12.3.1, 15.12.3.2, 15.16.1, 15.19
Sodium petroleum sulfonate		B	S/P	2	2G	Open	No		Yes	O	No	A	No	15.19.6, 16.2.6
Sodium silicate solution		C	P	3	2G	Open	No		Yes	O	No	A	No	
Sodium sulphide solution (15% or less)		B	S/P	3	2G	Cont.	No	RF		C	T	No	M5	15.16.1, 15.19.6, 16.2.9
Sodium sulphite solution (25% or less)		C	P	3	2G	Open	No	RF		O	No	No	No	15.16.1, 15.19.6, 16.2.9
Sodium tartrate and mono-/di-succinate solution		D	S	3	2G	Open	No		Yes	O	No	A,B	Y5	No
Sodium thiocyanate solution (56% or less)		(B)	P	3	2G	Open	No		Yes	O	No	No	No	15.19.6



PRODUC_NAME	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	J	K	L	M	N	O
Styrene monomer	2055	B	S/P	3	2G	Cont.	No	T1	IIA	No	F	A,B	M4,Z	No	15.13, 15.19.6, 16.6.1, 16.6.2
Sulpho hydrocarbon long chain (C18+) alkylamine mixture		B	P	3	2G	Open	No			Yes	No	A,B		No	15.19.6, 16.2.6
Sulphur (molten)	2448	III	S	3	1G	Open	Vent or Pad(gas)	T3		Yes(1)	0	F-T		No	15.10
Sulphuric acid	1830	C	S/P	3	2G	Open	No	MF		0	No	No		No	15.11, 15.16.2, 16.2.8, 16.2.9
Sulphuric acid, spent	1832	C	S/P	3	2G	Open	No	MF		0	No	No		No	15.11, 15.16.2, 16.2.8, 16.2.9
Tall oil (crude and distilled)		B	P	3	2G	Open	No			Yes	0	A		No	15.19.6, 16.2.6, 16.2.9, 16A.2.2
Tall oil fatty acid, barium salt		B	S/P	3	2G	Open	No	\		Yes	0	A		No	15.19.6, 16.2.6
Tall oil fatty acid (resin acids less than 20%)		(C)	P	3	2G	Open	No			Yes	0	A		No	16.2.7 to 16.2.9
Tall oil soap (disproportionated) solution		B	P	3	2G	Open	No			Yes	0	A		No	15.19.6, 16.2.6, 16.2.9
Tetrachloroethane	1702	B	S/P	3	2G	Cont.	No				R	No		No	15.12, 15.17, 15.19.6
Tetraethylene pentamine	2320	D	S	3	2G	Open	No		MF	Yes	0	A	M1	No	15.19.6
Tetrahydrofuran	2056	D	S	3	2G	Cont.	No	T3	IIB	No	R	F-T		No	15.19.6
Tetrahydronaphthalene (bb)		C	P	3	2G	Open	No			Yes	0	A		No	
Tetramethylbenzene (all isomers)		A	P	3	2G	Open	No			Yes	0	A		No	16.2.9, 16A.2.2
Toluene (bb)	1294	C	P	3	2G	Cont.	No			No	R	A		No	15.19.6
Toluenediamine	1709	C	S/P	2	2G	Cont.	No			Yes	C	A,D	M1	E	15.12, 15.17, 15.19, 16.2.7, 16.2.9
Toluene diisocyanate	2078	C	S/P	2	2G	Cont.	Det	T1	IIA	Yes	C	A,C(c), D	M4	E	15.12, 15.16.2, 15.17, 15.19, 16.2.9
o-Toluidine	1708	C	S/P	2	2G	Cont.	No			Yes	C	A		No	15.12, 15.17, 15.19
Tributyl phosphate		B	P	3	2G	Open	No			Yes	0	A		No	15.19.6
1,2,4-Trichlorobenzene	2321	B	S/P	2	2G	Cont.	No			Yes	R	A,B		No	15.19.6, 16.2.9, 16A.2.2
1,1,1-Trichloroethane	2831	C	P	3	2G	Open	No			Yes	0	A		No	
1,1,2-Trichloroethane		C	S/P	3	2G	Cont.	No		MF		R	No		No	15.12.1, 15.19.6
Trichloroethylene	1710	C	S/P	3	2G	Cont.	No	T2	IIA	Yes	R	No		No	15.12, 15.16.1, 15.17, 15.19.6
1,2,3-Trichloropropane		C	S/P	2	2G	Cont.	No			Yes	C	A,B,D		No	15.12, 15.17, 15.19

PRODUCER	UN_NUMBER	C	D	E	F	G	H	I	I_DASH	I_DASH3	J	K	L	M	N	O
1,1,2-Trichloro-1,2,2-Trifluoroethane		C	P	3	2G	Open	No	HF		0	No	No			No	
Tricresyl phosphate (containing less than 1% ortho-isomer)		A	P	2	2G	Open	No		Yes	0	No	A			No	15.19.6
Tricresyl phosphate (containing 1% or more ortho-isomer)	2574(J)	A	S/P	1	2G	Cont.	No	T2	IIA	Yes	C	No	A,B		No	15.12.3, 15.19
Tridecanoic acid		B	P	3	2G	Open	No		Yes	0	No	A			No	15.19.6, 16.2.6, 16.2.9, 16A.2.2
Triethanolamine		D	S	3	2G	Open	No	IIA	Yes	0	No	A		W1	No	
Triethylamine	1296	C	S/P	2	2G	Cont.	No	T2	IIA	No	R	F-T	A,C	W2	E	15.12, 15.19.6
Triethylbenzene		A	P	2	2G	Open	No		Yes	0	No	A			No	15.19.6
Triethylenetetramine	2259	D	S	3	2G	Open	No	T2	III	Yes	0	No	A	W1	No	
Triethylphosphate	2323	B	S/P	3	2G	Cont.	No		No	R	K	F-T	A,B		No	15.12.1, 15.19.6
Triisopropylated phenyl phosphates		A	P	2	2G	Open	No		Yes	0	No	A			No	15.19.6
Trimethylacetic acid		D	S	3	2G	Cont.	No		Yes	R	R	No	A	Y1	No	15.11.2 to 15.11.8
Trimethylamine solution (30% or less)	1297	C	S/P	2	2G	Cont.	No		No	C	F-T	A,C		W1	E	15.12, 15.14, 15.19, 16.2.9
Trimethylbenzene (all isomers)		A	P	3	2G	Cont.	No		No	R	R	F	A		No	15.19.6
Trimethylhexamethylenediamine	2327	D	S	3	2G	Open	No		Yes	0	No	A,C		W1	No	15.19.6
(2,2,4- and 2,4,4-isomers)		B	S/P	2	2G	Cont.	DRY		Yes	C	T	A,C(c)			No	15.12, 15.16.2, 15.17, 15.19.6
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-isomers)	2328	C	P	3	2G	Open	No		Yes	0	No	A			No	
2,2,4-Trimethyl-1,3-pentanedio 1-1-isobutylrate		D	S	3	2G	Cont.	No		No	R	R	F-T	A,D		No	15.12.1, 15.16.2, 15.19.6
Trimethyl phosphate	2329	D	S	3	2G	Cont.	No		No	R	R	F	A,D		No	15.19.6
1,3,5-Trioxane		A	P	1	2G	Open	No		Yes	0	No	A			No	15.19
Trixylyl phosphate		B	P	3	2G	Cont.	No		No	R	R	F	A		No	15.19.6
Turpentine	1299	B	P	3	2G	Open	No		Yes	0	No	A			No	16.2.6, 16.2.9
Undecanoic acid		B	P	3	2G	Open	No		Yes	0	No	A			No	

PRODU_NAME	UR_NUMBER	C	D	E	F	G	H	I	I_DASH	I_DASHES	J	K	L	M	N	O
1-Undecene		B	P	3	2G	Open	No		Yes	O	No	A				15.19.6
Undecyl alcohol		B	P	3	2G	Open	No		Yes	O	No	A				15.19.6, 16.2.9, 16A.2.2(r)
Urea/Ammonium nitrate solution (containing aqua ammonia)		C	S/P	3	2G	Cont.	No	HF		R	T	A		M4		No
Valeraldehyde (all isomers)	2058	C	S/P	3	2G	Cont.	Inert	T3	IIB	No	R	F-T	A			No
Vinyl acetate	1301	C	S/P	3	2G	Cont.	No	T2	IIA	No	R	F	A			No
Vinyl ethyl ether	1302	C	S/P	2	1G	Cont.	Inert	T3	IIB	No	C	F-T	A		M6	E
Vinylidene chloride	1303	D	S	2	2G	Cont.	Inert	T2	IIA	No	R	F-T	B		M5	E
Vinyl neodecanoate		B	S/P	3	2G	Open	No		Yes	O	No	A,B				15.13, 15.16.1, 15.19.6, 16.6.1, 16.6.2
Vinyltoluene	2618	A	S/P	3	2G	Cont.	No		IIA	No	R	F	A,B		M1	No
White spirit, low (15-201) aromatic	1300	(B)	P	2	2G	Cont.	No		No	No	R	F	A			15.13, 15.19.6, 16.6.1, 16.6.2
Xylenes (bb)	1307	C	P	3	2G	Cont.	No				R	F	A			No
Xylenol	2261	B	S/P	3	2G	Open	No		IIA	Yes	O	No	A,B			No
Zinc alkaryl dithiophosphate (C7-C16)		(C)	P	3	2G	Open	No		Yes	O	No	A,B				No
Zinc alkyl dithiophosphate (C3-C14)		B	P	3	2G	Open	No		Yes	O	No	A,B				15.19.6, 16.2.6

- a Applies to ammonia aqueous, (28% or less) but not below 10%.  
Ammonia aqueous (28% or less)
- b If the product to be carried contains flammable solvents such that the flashpoint does not exceed 60°C c.c., then special electrical systems and a flammable vapour detector should be provided.  
Diphenyl methane diisocyanate  
Polymethylene polyphenyl isocyanate
- c Although water is suitable for extinguishing open air fires involving chemicals to which this footnote applies, water should not be allowed to contaminate closed tanks containing these chemicals because of the risk of hazardous gas generation.  
Diphenylmethane diisocyanate  
Toluene diisocyanate  
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-isomers)
- d UN No.1198 only applies if flashpoint is below 60°C c.c.  
Formaldehyde solutions (45% or less)
- e Applies to formaldehyde solutions (45% or less), but not below 5%.  
Formaldehyde solutions (45% or less)
- f Applies to hydrochloric acid not below 10%.  
Aluminium chloride (30% or less)/Hydrochloric acid (20% or less) solution  
Hydrochloric acid
- g Dry chemical cannot be used because of the possibility of an explosion.  
Maleic anhydride
- h UN No.2032 assigned to red fuming nitric acid.  
Nitric acid (70% and over)
- i UN number depends on boiling point of substance.  
Polyethylene polyamines  
Polymethylene polyphenyl isocyanate
- j UN number assigned to this substance containing more than 3% of ortho-isomer.  
Tricresyl phosphate (containing 1% or more ortho-isomer)
- k Phosphorus (yellow or white) is carried above its autoignition temperature and therefore flashpoint is not appropriate. Electrical equipment requirements may be similar to those for substances with a flashpoint above 60°C c.c.  
Phosphorus (yellow or white)

- l Sulphur (molten) has a flashpoint above 60°C c.c., however, electrical equipment should be certified safe for gases evolved.  
Sulphur (molten)
- m UN No.2672 refers to 10-35% ammonia solutions.  
Ammonia aqueous (28% or less)
- n UN No.2511 applies to 2-chloropropionic acid only.  
2- or 3-Chloropropionic acid
- o Dinitrotoluene should not be carried in deck tanks.  
Dinitrotoluene (molten)
- p (Deleted).
- q Requirements are based on those isomers having a flashpoint of 60°C c.c., or less; some isomers have a flashpoint greater than 60°C c.c., and therefore the requirements based on flammability would not apply to such isomers.  
Heptanol (all isomers)
- r Reference 16A.2.2 applies to 1-undecyl alcohol only.  
Undecyl alcohol
- s Applies to n-decyl alcohol only.  
Decyl alcohol (all isomers)
- t UN No.1114 applies to benzene.  
Benzene and mixtures having 10% benzene or more
- u Dry chemicals should not be used as fire-extinguishing media.  
Nitropropane (60%)/Nitroethane (40%) mixture
- v Confined spaces should be tested for both formic acid vapours and carbon monoxide gas, a decomposition product.  
Formic acid
- w Applies to p-xylene only.  
Xylenes
- x Applies to p-isomer and mixtures containing p-isomer viscosity of which is 25 mPa.s at 20°C.  
Dichlorobenzenes (all isomers)

- y Applies to p-isomer and mixtures containing p-isomer melting point of which is 0°C and above.
- Dichlorobenzenes (all isomers)
- z Applies to p-isomer and mixtures containing p-isomer melting point of which is 15°C and above.
- Dichlorobenzenes (all isomers)
- aa Applies only to products with melting point of 15°C and above.
- Nonyl phenol poly(4-12)ethoxylates
- bb Applies to oil-like substances identified in accordance with the provisions of the unified interpretation of regulation 14 of Annex II of MARPOL 73/78 agreed by the MEPC.

The existing text of chapter 18 is replaced by the following:

CHAPTER 18 – LIST OF CHEMICALS TO WHICH THE CODE DOES NOT APPLY

1 The following are chemicals which have been reviewed for their safety and pollution hazards and determined not to present hazards to such an extent as to warrant application of the Code. This list may be used as a guide in considering bulk carriage of chemicals whose hazards have not yet been evaluated.

2 Although the chemicals listed in this chapter fall outside the scope of the Code, the attention of Administrations is drawn to the fact that some safety precautions may be needed for their safe transportation. Accordingly, Administrations should prescribe appropriate safety requirements.

3 Some chemicals are identified as falling into pollution category D and, therefore, as being subject to certain operational requirements of Annex II of MARPOL 73/78.

4 Liquid mixtures which are provisionally assessed under regulation 3(4) of Annex II of MARPOL 73/78 as falling into pollution category D, and which do not present safety hazards, may be carried under the entry for noxious liquids not otherwise specified in this chapter. Similarly, those mixtures provisionally assessed as falling outside pollution category A, B, C or D, and which do not present safety hazards, may be carried under the entry for non-noxious liquids not otherwise specified in this chapter.

EXPLANATORY NOTES

Product name  
(column a) In some cases, the product names may not be identical with the names given in previous issues of the IBC Code or the BCH Code (for explanation see index of chemicals).

UN number  
(column b) The number relating to each product shown in the recommendations proposed by the United Nations Committee of Experts on the Transport of Dangerous Goods. UN numbers, where available, are given for information only.

Pollution category  
(column c) The letter D means the pollution category assigned to each product under Annex II of MARPOL 73/78. "III" means the product was evaluated and found to fall outside the categories A, B, C or D.

Pollution category in brackets indicates that the product is provisionally categorized and that further data are necessary to complete the evaluation of their pollution hazards. Until the hazard evaluation is completed, the pollution category assigned is used.

a	b	c
Product name	UN number	Pollution category for operational discharge (regulation 3 of Annex II)
Acetone	1090	III
Alcohols (C <sub>13</sub> ⁺)	-	III
Alcoholic beverages, n.o.s.	3065	III
Acrylonitrile-Styrene copolymer dispersion in polyether polyol	-	D
n-Alkanes (C <sub>10</sub> ⁺)	-	III
Alkaryl polyether (C <sub>9</sub> -C <sub>20</sub> )	-	D
Alkenyl(C <sub>11</sub> ⁺)amide	-	D
Alkyl(C <sub>8</sub> ⁺)amine, alkenyl (C <sub>12</sub> ⁺) acid ester mixture	-	D
Alkyl(C <sub>9</sub> ⁺)benzenes	-	III
Alkyl dithiothiadiazole (C <sub>6</sub> -C <sub>24</sub> )	-	D
Aluminium sulphate solution	-	D
Aminoethyldiethanolamine/ Aminoethylethanolamine solution	-	III
2-Amino-2-hydroxymethyl-1,3-propanediol solution (40% or less)	-	III



a	b	c
Ammonium hydrogen phosphate solution	-	D
Ammonium polyphosphate solution	-	D
Ammonium sulphate solution	-	D
n-Amyl alcohol	1105	D
sec-Amyl alcohol	1105	D
tert-Amyl alcohol	1105	III
Amyl alcohol, primary	1105	D
Animal and fish oils, n.o.s. including:	-	D
Cod liver oil		
Lanolin		
Neatsfoot oil		
Pilchard oil		
Sperm oil		
Animal and fish oils and distillates acids, n.o.s. including:	-	D
Animal acid oil		
Fish acid oil		
Lard acid oil		
Mixed acid oil		
Mixed general acid oil		
Mixed hard acid oil		
Mixed soft acid oil		
Apple juice	-	III
Aryl polyolefin (C <sub>11</sub> -C <sub>50</sub> )	-	D

a	b	c
Benzene tricarboxylic acid, trioctyl ester	-	III
Brake fluid base mix: (Poly(2-8)alkylene (C <sub>2</sub> -C <sub>3</sub> ) glycols/ Polyalkylene (C <sub>2</sub> -C <sub>10</sub> ) glycols monoalkyl (C <sub>1</sub> -C <sub>4</sub> ) ethers and their borate esters) <sup>1/</sup>	-	D
sec-Butyl acetate	1123	D
n-Butyl alcohol	1120	III
sec-Butyl alcohol	1120	III
tert-Butyl alcohol	1120	III
Butylene glycol	-	D
Butyl stearate	-	III
gamma-Butyrolactone	-	D
Calcium carbonate slurry	-	III
Calcium hydroxide slurry	-	D
Calcium long chain alkaryl sulphonate (C <sub>11</sub> -C <sub>50</sub> )	-	D
Calcium long chain alkyl phenate sulphide (C <sub>8</sub> -C <sub>40</sub> )	-	D
Calcium long chain phenolic amine (C <sub>8</sub> -C <sub>40</sub> )	-	III

<sup>1/</sup> Use "Brake fluid base mix" as a proper name on the shipping document.

a	b	c
Calcium nitrate/Magnesium nitrate/ Potassium chloride solution	-	III
epsilon-Caprolactam (molten or aqueous solutions)	-	D
Chlorinated paraffins (C <sub>14</sub> -C <sub>17</sub> ) (with 52% chlorine)	-	III
Choline chloride solutions	-	D
Citric acid (70% or less)	-	D
Clay slurry	-	III
Coal slurry	-	III
Coconut oil fatty acid methyl ester	-	D
Cyclohexanol	-	D
Decahydronaphthalene	1147	(D)
Dextrose solution	-	III
Diacetone alcohol	1148	D
Dialkyl(C <sub>7</sub> -C <sub>13</sub> ) phthalates	-	D
Diethylene glycol	-	D
Diethylene glycol dibutyl ether	-	D
Diethylene glycol diethyl ether	-	III
Diethylene glycol phthalate	-	D

a	b	c
Diethylenetriamine pentaacetic acid, pentasodium salt solution	-	III
Di-(2-ethylhexyl) adipate	-	D
Diheptyl phthalate	-	III
Dihexyl phthalate	-	III
1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution	-	D
Diisobutyl ketone	1157	D
Diisononyl adipate	-	D
Diisooctyl phthalate	-	III
Diisopropyl naphthalene (bb)	-	D
2,2-Dimethylpropane-1,3-diol	-	(D)
Dimethyl polysiloxane	-	III
Dinonyl phthalate	-	D
Dioctyl phthalate	-	III
Dipropylene glycol	-	III
Ditridecyl phthalate	-	D
Diundecyl phthalate	-	D
Dodecane (all isomers)	-	III

a	b	c
Dodecanyl succinic acid, dipotassium salt solution	-	(D)
Dodecyl benzene	-	III
Dodecyl xylene	-	III
Drilling brines Including:  Calcium bromide solution Calcium chloride solution Sodium chloride solution	-	III
2-Ethoxyethanol	1171	D
Ethyl acetate	1173	D
Ethyl acetoacetate	-	(D)
Ethyl alcohol	1170	III
Ethylene carbonate	-	III
Ethylenediamine tetraacetic acid, tetrasodium salt solution	-	D
Ethylene glycol	-	D
Ethylene glycol acetate	-	(D)
Ethylene glycol methyl butyl ether	-	D
Ethylene glycol phenyl ether	-	D
Ethylene glycol phenyl ether/ Diethylene glycol phenyl ether mixture	-	D

a	b	c
Ethylene-vinyl acetate copolymer (emulsion)	-	III
2-Ethylhexanoic acid	-	D
Ethyl propionate	1195	D
Fatty acid (saturated C <sub>13</sub> +) )	-	III
Ferric hydroxyethylethylene diamine triacetic acid, trisodium salt solution	-	D
Fish solubles*	-	III
Formamide	-	D
Glucose solution	-	III
Glycerine	-	III
Glycerine (83%), Dioxanedimethanol (17%) mixture	-	D
Glycerol polyalkoxylate	-	III
Glyceryl triacetate	-	(III)
Glycine, sodium salt solution	-	III
Glyoxal solution (40% or less)	-	D
n-Heptanoic acid	-	D

\* Water-based fish meal extract.

a	b	c
Hexamethylenediamine adipate (50% in water)	-	D
Hexamethylene glycol	-	III
Hexamethylenetetramine solutions	-	D
Hexanoic acid	-	D
Hexanol	2282	D
Hexylene glycol	-	III
N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution	-	D
Isoamyl alcohol	1105	D
Isobutyl alcohol	1212	III
Isobutyl formate	2393	D
Iso- & cyclo-Alkanes (C <sub>10</sub> -C <sub>11</sub> )	-	D
Iso- & cyclo-Alkanes (C <sub>12</sub> +)	-	III
Isophorone	-	D
Isopropyl acetate	1220	III
Isopropyl alcohol	1219	III
Kaolin slurry	-	III
Lactic acid	-	D

a	b	c
Lard	-	III
Latex:		
Carboxylated styrene-butadiene copolymer	-	III
Styrene-Butadiene rubber	-	III
Latex, ammonia (1% or less) inhibited	-	D
Lignin sulphonic acid, sodium salt solution	-	III
Long chain alkaryl sulphonic acid (C <sub>16</sub> -C <sub>60</sub> )	-	D
Long chain alkylphenate/phenol sulfide	-	III
Magnesium chloride solution	-	III
Magnesium hydroxide slurry	-	III
Magnesium long chain alkaryl sulphonate (C <sub>11</sub> -C <sub>50</sub> )	-	D
3-Methoxy-1-butanol	-	III
3-Methoxybutyl acetate	-	D
Methyl acetate	1231	III
Methyl acetoacetate	-	D
Methyl alcohol	1230	D
Methyl amyl ketone	-	D



a	b	c
Methyl propyl ketone	-	D
N-Methyl-2-pyrrolidone	-	D
Methyl butenol	-	(D)
Methyl tert-butyl ether	2398	D
Methyl butyl ketone	-	D
Methyl butynol	-	D
Methyl ethyl ketone	1193	III
Methyl isobutyl ketone	1245	D
3-Methyl-3-methoxy butanol	-	III
3-Methyl-3-methoxy butyl acetate	-	III
Molasses	-	III
Myrcene	-	D
Naphthalene sulphonic acid/ Formaldehyde copolymer, sodium salt solution	-	D
Nitrilotriacetic acid, trisodium salt solution	-	D
Nonanoic acid (all isomers)	-	D
Nonyl methacrylate monomer	-	(D)

a	b	c
Noxious liquid, n.o.s. (17) (trade name ..., contains ...) Cat. D <sup>1/</sup>	-	D
Non-noxious liquid, n.o.s. (18) (trade name ..., contains ...) Appendix III <sup>1/</sup>	-	III
Octanoic acid (all isomers)	-	D
Octyl decyl adipate	-	III
Olefins (C <sub>13</sub> +, all isomers)	-	III
Olefin/alkyl ester copolymer (molecular weight 2000+)	-	D
Oleic acid	-	D
Palm oil fatty acid methyl ester	-	D
Palm stearin	-	D
Paraffin wax	-	III
Pentaethylenehexamine	-	D
Pentanoic acid	-	D
Petrolatum	-	(III)

<sup>1/</sup> In case of a specific n.o.s. (not otherwise specified) cargo assessed as falling within this n.o.s. group that is carried on a ship, this entry, including the cargo's trade name and one or two principal components, should be provided in the shipping document.

a	b	c
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	-	D
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	-	D
Polyaluminium chloride solution	-	III
Polybutene	-	III
Polyether (molecular weight 2000+)	-	D
Polyethylene glycol	-	III
Polyethylene glycol dimethyl ether	-	III
Polyglycerin, Sodium salt solution (containing less than 3% sodium hydroxide)	-	III
Polyglycerol	-	III
Poly(4+)isobutylene	-	III
Polyolefin (molecular weight 300+)	-	III
Polyolefin amide alkeneamine (C <sub>28</sub> +)	-	D
Polyolefin amide alkeneamine borate (C <sub>28</sub> -C <sub>250</sub> )	-	D
Polyolefin amide alkeneamine molybdenum oxysulfide	-	III
Polyolefin amide alkeneamine polyol	-	D

a	b	c
Polyolefin anhydride	-	D
Polyolefin ester (C <sub>28</sub> -C <sub>250</sub> )	-	D
Polyolefin phenolic amine (C <sub>28</sub> -C <sub>250</sub> )	-	D
Poly(20)oxyethylene sorbitan monooleate	-	III
Poly(5+)propylene	-	III
Polypropylene glycol	-	D
Polysiloxane	-	III
n-Propyl acetate	1276	D
n-Propyl alcohol	1274	III
Propylene/Butylene copolymer	-	III
Propylene glycol	-	III
Propylene glycol monoalkyl ether	-	(D)
Propylene glycol methyl ether acetate	-	D
Sodium acetate solutions	-	(D)
Sodium aluminosilicate slurry	-	III
Sodium benzoate	-	D
Sodium carbonate solution	-	D

a	b	c
Sodium poly(4+)acrylate solutions	-	III
Sodium sulphate solutions	-	III
Sorbitol solution	-	III
Sulphohydrocarbon (C <sub>3</sub> -C <sub>8</sub> )	-	D
Sulpholane	-	D
Tallow	-	D
Tallow fatty acid	-	(D)
Tetraethylene glycol	-	III
Tridecane	-	III
Tridecyl acetate	-	III
Triethyl phosphate	-	D
Triethylene glycol	-	III
Triisopropanolamine	-	III
Trimethylol propane polyethoxylate	-	D
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	-	III
Tripropylene glycol	-	III

a	b	c
Urea/Ammonium mono- and di-hydrogen phosphate/Potassium chloride solution	-	(D)
Urea/Ammonium nitrate solution	-	D
Urea/Ammonium phosphate solution	-	D
Urea formaldehyde resin solution	-	III
Urea solution	-	III
Vegetable oils, n.o.s. Including:  beech nut oil, castor oil, cocoa butter, coconut oil, corn oil, cotton seed oil, groundnut oil, hazelnut oil, linseed oil, nutmeg butter, oiticica oil, olive oil, palm nut oil, palm oil, peel oil (oranges and lemons), perilla oil, poppy oil, raisin seed oil, rape seed oil, rice bran oil, safflower oil, salad oil, sesame oil, soya bean oil, sunflower oil, tucum oil, tung oil, walnut oil	-	D
Vegetable acid oils and distillates, n.o.s. Including:  corn acid oil, cotton seed acid oil, dark mixed acid oil, groundnut acid oil, mixed acid oil, mixed general acid oil, mixed hard acid oil, mixed soft acid oil, rape seed acid oil, safflower acid oil, soya acid oil, sunflower seed acid oil	-	D
Vegetable protein solution (hydrolysed)	-	III
Water	-	III
Waxes	-	D

New chapter 20 is added as follows:

CHAPTER 20 - TRANSPORT OF LIQUID CHEMICAL WASTES

20.1 Preamble

20.1.1 Maritime transport of liquid chemical wastes could present a threat to human health and to the environment.

20.1.2 Liquid chemical wastes should, therefore, be transported in accordance with relevant international conventions and recommendations and, in particular, in the case of maritime transport in bulk, with the requirements of this Code.

20.2 Definitions

For the purpose of this chapter:

20.2.1 "Liquid chemical wastes" are substances, solutions or mixtures, offered for shipment, containing or contaminated with one or more constituents which are subject to the requirements of this Code and for which no direct use is envisaged but which are carried for dumping, incineration or other methods of disposal other than at sea.

20.2.2 "Transboundary movement" means maritime transport of wastes from an area under the national jurisdiction of one country to or through an area under the national jurisdiction of another country, or to or through an area not under the national jurisdiction of any country, provided at least two countries are concerned by the movement.

20.3 Applicability

20.3.1 The requirements of this chapter are applicable to the transboundary movement of liquid chemical wastes in bulk by seagoing ships and should be considered in conjunction with all other requirements of this Code.

20.3.2 The requirements of this chapter do not apply to:

- .1 wastes derived from shipboard operations which are covered by the requirements of MARPOL 73/78;
- .2 liquid chemical wastes carried by ships engaged in the incineration of such wastes at sea which are covered by chapter 19 of this Code; and
- .3 substances, solutions or mixtures containing or contaminated with radioactive materials which are subject to the applicable requirements for radioactive materials.

## 20.4 Permitted shipments

### 20.4.1 Transboundary movement of wastes is permitted to commence only when:

- .1 notification has been sent by the competent authority of the country of origin, or by the generator or exporter through the channel of the competent authority of the country of origin, to the country of final destination; and
- .2 the competent authority of the country of origin, having received the written consent of the country of final destination stating that the wastes will be safely incinerated or treated by other methods of disposal, has given authorization for the movement.

## 20.5 Documentation

- 20.5.1 In addition to the documentation specified in 16.2 of this Code ships engaged in transboundary movement of liquid chemical wastes should carry on board a waste movement document issued by the competent authority of the country of origin.

## 20.6 Classification of liquid chemical wastes

- 20.6.1 For the purpose of the protection of the marine environment all liquid chemical wastes transported in bulk should be treated as category A noxious liquid substances, irrespective of the actual evaluated category.

## 20.7 Carriage and handling of liquid chemical wastes

- 20.7.1 Liquid chemical wastes should be carried in ships and cargo tanks in accordance with the minimum requirements for liquid chemical wastes specified in chapter 17, unless there are clear grounds indicating that the hazards of the wastes would warrant:
- .1 carriage in accordance with the ship type 1 requirements; or
  - .2 any additional requirements of this Code applicable to the substance or, in case of a mixture, its constituent presenting the predominant hazard.