

SCIENTIFIC SUB-COMMITTEE	40.808 E
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12th Session	O. Fr.
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	SC-3
	H9-6

Brussels, 4 December 1996.

POSSIBLE INCLUSION OF CHEMICAL STRUCTURES
IN THE EXPLANATORY NOTES TO CHAPTER 29
(Item II.14. on Agenda)

Reference documents :

39.480, Annex A/5 (Report - SSC/9)
39.563 (HSC/16)
39.600, Annex D/2 (Report - HSC/16)
39.908 (SSC/10)
40.080, Annex A/8 (Report - SSC/10)
40.037, paragraph 23 (HSC/17)
40.260, Annex D, paragraph 24 (Report - HSC/17)
40.760 (SSC/12)

I. BACKGROUND

- I. After the preparation of Doc. 40.760, the Secretariat received the following comments from the European Community, the Japanese Administration and the Canadian Administration.

II. COMMENTS BY THE EUROPEAN COMMUNITY

- III. The EC intends to submit a proposal on this matter for discussion in the Scientific Sub-Committee. Unfortunately, since the EC document containing that proposal has not yet been examined by the Customs Code Committee, the EC will probably not be able to send that proposal in time for the Scientific Sub-Committee's 12th Session.

III. COMMENTS BY THE JAPANESE ADMINISTRATION

1.

- V. "In response to your fax requesting comments on the possible inclusion of chemical structures in the Explanatory Notes to Chapter 29, it would seem that the insertion of the chemical structures in the Explanatory Notes would be very useful.
- VII. With reference to which chemical structures should be included in the Explanatory Notes, the Japanese Administration would like to support the Secretariat comments in paragraphs 10 to 13 of Doc. 39.563.
- IX. Since the Japanese Customs Administration has already prepared almost all the chemical structures for chemicals which are specified in the Explanatory Notes to Chapter 29 in a separate Annex to a publication in Japanese, entitled "International and Domestic Classification Opinions" (provisional name), chemists in the laboratory have preliminary identified about 490 chemical names cited in the Explanatory Notes, for which structures might be added, by placing circles on the left side of the chemical names in a copy of the Annex. A copy will be sent, by separate post."

IV. COMMENTS BY THE CANADIAN ADMINISTRATION

- XI. "There are approximately 1,100 to 1,200 chemicals named in the Explanatory Notes to Chapter 29, not including some 350-400 in the narcotics, precursors and steroids listed towards the end of the Chapter. (Some 1,500 total named products.) In the Canadian Administration's opinion, inclusion of all of these products in the Explanatory Notes is not warranted. Canada would, however, propose including most of the chemicals named in the legal texts when the information currently in the Explanatory Notes is not sufficient to understand the structure of the material.
- XIII. The following proposed list contains some 144 chemicals representative of most of the major classes named in the structured nomenclature. Occasionally, other chemicals are included when it would be beneficial (i.e gonane, penicillanic acid). When spread over the 100+ pages of Chapter 29, they would average only 1-2 new structures per page. Also included are 35 products described in the General Explanatory Note to Sub-Chapter X which list the major heterocyclic ring systems and which are important for classification in Sub-Chapter X."

V. SECRETARIAT COMMENTS

- XV. It is clear from the comments received that, at first sight, the EC, Japan and Canada are in favour of publishing the chemical structures of certain products of Chapter 29.
- XVII. The list put forward by the Canadian Administration (appended hereto) consists essentially of the products mentioned in the legal texts, plus the major heterocyclic ring systems listed in the General Explanatory Note to Sub-Chapter X of Chapter 29. Although this approach limits the number of inclusions to approximately 180 products, the Secretariat feels that the insertion of each structure within the relevant Explanatory Note would entail a considerable reworking of the Explanatory Notes to Chapter 29.
- XIX. The Secretariat also draws the Scientific Sub-Committee's attention to the fact that, while agreeing with the Secretariat's comments in Doc. 39.563, the Japanese Administration puts forward an alternative approach, namely publishing a separate Annex which would make it possible appreciably to increase the number of chemicals identified by their chemical structures. In view of its size, the Japanese Administration's publication has not been reproduced in this document. A copy will be available in the meeting room.

VI. CONCLUSION

- XXI. The Sub-Committee is invited to take account of the above comments by the European Community and by the Japanese and Canadian Administrations, when examining this Agenda item.

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x

Annex to
Doc. 40.808 E

**List of chemical structures for Inclusion in the Explanatory
Notes to Chapter 29. of the HS
(Proposal by Canada)**

	Heading 29.08
Heading 29.01	None
None	Heading 29.09
Heading 29.02	None
o-xylene m-xylene p-xylene styrene cumene	Heading 29.10 Oxirane Methyloxirane Epichlorohydrin
Heading 29.03	Heading 29.11
DDT	Hemiacetal example Methylal
Heading 29.04	Heading 29.12
None	Benzaldehyde Vanillin Ethyl vanillin
Heading 29.05	Heading 29.13
Allyl alcohol Pentaerythritol Mannitol D-glucitol	None
Heading 29.06	Heading 29.14
Menthol Terpineol(s)	Camphor Ionone(s) Methylionone(s) Anthraquinone
Heading 29.07	Heading 29.15
Cresol(s) Xylenol(s) Naphthol(s) Resorcinol Hydroquinone(quinol) Bisphenol A	None
	Heading 29.16
	Acrylic acid Methacrylic acid Benzoic acid, Benzoyl peroxide, Benzoyl chloride

Heading 29.17

Azelaic acid
Sebacic acid
Maleic anhydride
Phthalic acid(s)
Phthalic anhydride
Terephthalic acid

Heading 29.18

Citric acid
Gluconic acid
Phenylglycolic acid
Salicylic acid
O-Acetylsalicylic acid

Heading 29.19

Glycerophosphoric acid
Tributyl phosphate

Heading 29.20

Sodium O,O-dibutylthiophosphate
Sodium O,O-ditolyldithiophosphate
Methyl nitrite
Ethyl nitrate
Nitroglycerol
Diguaiacyl carbonate
Tetraethyl silicate

Heading 29.21

Hexamethylenediamine
Aniline
Toluidine(s)
1-Naphtylamine
Phenylenediamine(s)
Example of a nitrosoamine
(N-nitrosodimethylamine?)

Heading 29.22

Mono, di, triethanolamine
Meclophenoxate
Aminohydroxynaphthalenesulphonic
acid(s)
Anisidine(s)
Dianisidine(s)
Phenetidine(s)
Lysine
Glutamic acid

Heading 29.23

Choline
Lecithin

Heading 29.24

Diethyldiphenylurea
2-Acetamidobenzoic acid

Heading 29.25

Saccharin
Diphenylguanidine

Heading 29.26

Acrylonitrile
1-Cyanoguanidine

Heading 29.27

Benzenediazonium chloride
Azobenzene
Azoxybenzene

Heading 29.28

Phenylhydrazine
Phenylglyoxime

Heading 29.29

Toluene diisocyanate

Sub-chapter X General

Furan
Thiophen
Pyrrole
Oxazole
Isooxazole
Thiazole
Imidazole
Pyrazole
Furazan
Triazole
Tetrazole
Pyran
Thiin
Pyridine
Oxazine
Thiazine
Pyridazine
Pyrimidine
Pryazine
Piperazine
Coumarone
Benzopyran
Xanthene
Indole
Quinoline and isoquinoline
Acridine
Benzothiophene (Thionaphthene)
Indazole
Benzimidazole
Phenazine
Phenoxazine
Benzoxazole
Carbazole
Quinazoline
Benzothiazole

Heading 29.30

Sodium ethyldithiocarbonate
Isopropyl ethyl thiocarbamate
Sodium diethyldithiocarbamate
Tetraethyl thiuramdisulphide
Methionine

Thiourea

Heading 29.31

Hexamethyldisiloxane
Iron carbonyl

Heading 29.32

Tetrahydrofuran
2-Furaldehyde
Furfuryl alcohol
Coumarin
Isosafrole
1-(1,3-Benzodioxol-5-yl)propan-2-one
Piperonal
Safrole
Anhydromethylenecitric acid
Example for esters forming part of two rings
Example for dilactone

Heading 29.33

Phenazone
Hydantoin
Pyridine
Piperidine
Malonylurea
Melamine
6-Hexanelactam
Example of amide forming part of two rings

Heading 29.34

Phenothiazine
Phenolsulphonethalein

Heading 29.35

o-Toluenesulphonamide
Sulphapyridine
Sulphathiolurea

Heading 29.36

Annex to
Doc. 40.808 E

Vitamin A (retinol)
Vitamin B1 (thiamin)
Vitamin B2 (riboflavin)
Pantothenic acid
Pyridoxine
Folic acid
Ascorbic acid
Calciferol
alpha-Tocoferol

Heading 29.37

Gonane
Cortisone

Heading 29.38

Rutoside

Heading 29.39

Morphine
Quinine
Caffeine
Ephedrine
Theophylline
Nicotine

Heading 29.40

Galactose
Hydroxypropyl sucrose
Tribenoside
Sucrose monoacetate

Heading 29.41

Penicillin G
Penicillanic acid (not an antibiotic)
Streptomycin A
Tetracycline
Chloramphenicol
Erythromycin A

Heading 29.42

None

Heading 29.01

None

Heading 29.02

o-xylene
m-xylene
p-xylene
styrene
cumene

Heading 29.03

DDT

Heading 29.04

None

Heading 29.05

Allyl alcohol
Pentaerythritol
Mannitol
D-glucitol

Heading 29.06

Menthol
Terpineol(s)

Heading 29.07

Cresol(s)
Xylenol(s)
Naphthol(s)
Resorcinol
Hydroquinone(quinol)
Bisphenol A