Prepared by the

INTERNATIONAL NARCOTICS CONTROL BOARD

Vienna International Centre P.O.Box 500 A-1400 Vienna, Austria

in accordance with the

United Nations Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances, 1988

containing the

LIST OF PRECURSORS AND CHEMICALS FREQUENTLY USED IN THE ILLICIT MANUFACTURE OF NARCOTIC DRUGS AND PSYCHOTROPIC SUBSTANCES UNDER INTERNATIONAL CONTROL

Introduction

This list has been prepared by the International Narcotics Control Board (INCB) as a tool to be used for the identification of substances scheduled in Tables I and II of the United Nations Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances, 1988 (1988 Convention).

All those involved with the implementation of the provisions of article 12 of the 1988 Convention, including regulatory, administrative and law enforcement authorities, will find the list helpful. For example, it will be required to complete the Board's Form D, "Annual information on substances frequently used in the illicit manufacture of narcotic drugs and psychotropic substances", as required under the provisions of article 12, paragraph 12. It will also be required by regulatory and administrative authorities to check the names of chemicals associated with, *inter alia*, applications for authorizations for export or import. Law enforcement authorities will require the information, *inter alia*, to check documentation accompanying consignments of chemicals and to further identify chemicals seized at illicit laboratories.

The list is comparable to the lists of narcotic drugs and psychotropic substances under international control, and the alphabetical listings of other names and trade names of narcotic drugs and psychotropic substances, which are published by the Board as the "Yellow List" and the "Green List", respectively.

Part One gives a list of those substances scheduled in Tables I and II of the 1988 Convention. The list is divided into two sections, the first listing those substances included in Table I, and the second listing those substances in Table II. English, French and Spanish names as used in the respective versions of the Tables of the 1988 Convention are given, as well as Harmonized System (HS) codes and Chemical Abstracts Service (CAS) registry numbers, to facilitate rapid identification of all scheduled substances. The full Chemical Abstracts Index name of each substance is given also for reference purposes.

Part Two lists in alphabetical order the chemical names, synonyms and trade names, etc., of the substances included in Part One. Although not explicitly stated in the 1988 Convention, it is understood that the name of each of those substances, as given in the Tables of the Convention, covers also all isomeric forms of the substance. Consequently, it should be noted that where a specific isomer is listed in Part Two, for example *l*-ephedrine as a synonym for ephedrine, this should not be understood to mean that only the *l*-form of ephedrine is controlled.

Part Three provides a table of conversion factors needed to convert quantities of scheduled substances in their salt form into quantities of pure anhydrous base.

Part Four lists those Governments that have requested pre-export notifications pursuant to article 12, paragraph 10 (a), of the 1988 Convention.

Regular updating of the information provided in this list, particularly that relating to the chemical names, synonyms and trade names, etc., of scheduled substances, will be necessary to ensure the effectiveness of controls. INCB, with the United Nations Office on Drugs and Crime (UNODC), has established a database containing this information, using as a basic source, and adding to, an index of other names, synonyms and trade names collated by the Laboratory and Scientific Section of UNODC. Governments are kindly requested to provide the Board with any additions and/or amendments to the information provided to ensure that this database is maintained up to date.

PART ONE: SUBSTANCES SCHEDULED IN TABLES I AND II OF THE 1988 CONVENTION

English, French and Spanish names as used in the respective versions of Tables I and II of the 1988 Convention are given, as well as Harmonized System (HS) codes and Chemical Abstracts Service (CAS) registry numbers, to facilitate rapid identification of all scheduled substances. Chemical Abstracts Index names are given in parentheses.

SUBSTANCES INCLUDED IN TABLE I

Acetic anhydride Anhydride acétique Anhídrido acético

N-Acetylanthranilic acid Acide N-acétylanthranilique Acido N-acetilantranílico

Ephedrine Ephédrine Efedrina

Ergometrine Ergométrine Ergometrina

Ergotamine Ergotamine Ergotamina

Isosafrole Isosafrole Isosafrol

Lysergic acid Acide lysergique Acido lisérgico

3,4-Methylenedioxyphenyl-2-propanone Méthylènedioxyphényl-3,4 propanone-2 3,4-Metilendioxifenil-2-propanona

Norephedrine Norephédrine Norefedrina

1-Phenyl-2-propanone Phényl-1 propanone-2

1-Fenil-2-propanona

Piperonal Pipéronal Piperonal

Potassium permanganate Permanganate de potassium Permanganato potásico

Pseudoephedrine Pseudoéphédrine Seudoefedrina

Safrole

Safrole Safrol (acetic oxide) HS code: 2915.24 CAS number: 108-24-7

(benzoic acid, 2-(acetylamino)-) HS code: 2924.23 CAS number: 89-52-1

([*R*-(*R**,*S**)]--[1-(methylamino)ethyl]benzenemethanol) HS code: 2939.41 CAS number: 299-42-3

(ergoline-8-carboxamide,9,10-didehydro-*N*-(2-hydroxy-1-methylethyl)-6-methyl-,[8ß(S)]) HS code: 2939.61 CAS number: 60-79-7

(ergotaman-3',6',18'-trione,12'-hydroxy-2'-methyl-5'-(phenylmethyl)-,(5)) HS code: 2939.62 CAS number: 113-15-5

(1,3-benzodioxole,5-(1-propenyl)-) HS code: 2932.91 CAS number: 120-58-1

((8B)-9,10-didehydro-6-methylergoline-8-carboxylic acid) HS code: 2939.63 CAS number: 82-58-6

(2-propanone,1-[3,4(methylenedioxy)phenyl]-) HS code: 2932.92 CAS number: 4676-39-5

(**R***,**S***)-**∝**-(1-aminoethyl)benzenemethanol HS code: 2939.49 CAS number: 154-41-6

(1-phenyl-2-propanone) HS code: 2914.31 CAS number: 103-79-7

(1,3-benzodioxole-5-carboxaldehyde) HS code: 2932.93 CAS number: 120-57-0

(permanganic acid (HMnO₄), potassium salt) HS code: 2841.61 CAS number: 7722-64-7

([*S*-(*R**,*R**)]--[1-(methylamino)ethyl]benzenemethanol) HS code: 2939.42 CAS number: 90-82-4

(1,3-benzodioxole,5-(2-propenyl)-) HS code: 2932.94 CAS number: 94-59-7

The salts of the substances listed in this Table whenever the existence of such salts is possible.

SUBSTANCES INCLUDED IN TABLE II

Acetone

Acétone Acetona

Anthranilic acid Acide anthranilique Acido antranílico

Ethyl ether Ether éthylique Eter etílico

Hydrochloric acid¹ Acide chlorhydrique Acido clorhídrico

Methyl ethyl ketone Méthyléthylcétone Metiletilcetona

Phenylacetic acid Acide phénylacétique Acido fenilacético

Piperidine Pipéridine Piperidina

Sulphuric acid ¹ Acide sulfurique Acido sulfúrico

Toluene

1

Toluène Tolueno (2-propanone) HS code: 2914.11 CAS number: 67-64-1

(2-aminobenzoic acid) HS code: 2922.43 CAS number: 118-92-3

(1,1'-oxybis[ethane]) HS code: 2909.11 CAS number: 60-29-7

(hydrochloric acid) HS code: 2806.10 CAS number: 7647-01-0

(2-butanone) HS code: 2914.12 CAS number: 78-93-3

(benzeneacetic acid) HS code: 2916.34 CAS number: 103-82-2

(piperidine) HS code: 2933.32 CAS number: 110-89-4

(sulfuric acid) HS code: 2807.00 CAS number: 7664-93-9

(benzene, methyl-) HS code: 2902.30 CAS number: 108-88-3

The salts of the substances listed in this Table whenever the existence of such salts is possible.

The salts of hydrochloric acid and sulphuric acid are specifically excluded from Table II.

PART TWO: CHEMICAL NAMES, SYNONYMS AND TRADE NAMES, ETC., OF SCHEDULED SUBSTANCES AND THEIR SALTS, IN ALPHABETICAL ORDER

The names of substances as given in the 1988 Convention are printed in **bold type**. They are accompanied by a reference to whether the related substances are scheduled in Table I or Table II of the 1988 Convention, as detailed in PART ONE.

Listed chemical names, synonyms and trade names apply sometimes to pure substances and sometimes to the salts of those substances. In all such cases, reference is made to the substance name as given in PART ONE. Commercial products identified by their trade names usually contain a scheduled substance mixed with one or more other ingredients. As indicated in the Introduction it is understood that the names of the substances, as given in the Tables of the Convention, cover all isomeric forms of the substances.

The list does not assume to be comprehensive. The absence of any chemical name, synonym or trade name, etc., for a scheduled substance does not necessarily mean that the substance with that name is not under international control. Further, it should be noted that the same name, particularly common or trade names, may be used for different substances in different countries. In cases where ambiguity may occur, it is recommended that the name of the substance in question should always be checked against the chemical designation or formula.

All chemical names, synonyms and trade names are listed alphabetically wherever possible. Chemical names with a prefix are included at the respective alphabetical position of the substance itself. Thus, for example,

N-acetylaminobenzoic acid is listed under "a", trans-ephedrine is listed under "e", D-lysergic acid is listed under "l", 1,2-methylenedioxy-4-allyl-benzene is listed under "m", (+)-pseudoephedrine is listed under "p", and ∀-toluic acid is listed under "t", etc.

N-AAA 2-Acetamidobenzoic acid o-Acetamidobenzoic acid ortho-Acetamidobenzoic acid Acetanhydride Acetic acid, anhydride Acetic anhydride Acetic oxide Aceton, -a, -e, -um Acetone Acétone Acetonersatz Acetonylbenzene 5-Acetonyl-1,3-benzodioxole 1-(Acetonyl)-3,4-methylenedioxybenzene Acetyl acetate N-Acetylaminobenzoic acid 2-Acetylaminobenzoic acid o-Acetylaminobenzoic acid 1-Acetylamino-2-carboxybenzene Acetyl anhydride N-Acetylanthranilic acid Acetyl ether Acetyl oxide Acide N-acétylanthranilique Acide 2-aminobenzöique Acide o-aminobenzöique Acide anthranilique Acide benzéne acétique Acide chlorhydrique Acide ergoline-8ß-carboxylique, didéhydro -9,10-méthyl-6-Acide indolo (4,3-fg)-quinoline, ergoline-8-carboxylique Acide lysergique Acide lysergique 2-hydroxy-1-methyléthylamide Acide lysergique 2-propanolamide Acide phénylacétique Acide sulfurique Acide ∀-toluique Acido N-acetilantranílico Acido orto-aminobenzoico Acido antranílico Acido bencenoacetico Acido clorhidrico Acido fenilacético Acido lisérgico Acido piroacetico Acido sulfúrico Acido ∀-toloico Acidum hydrochloricum (concentratum) Actifed Acutrim Adiret Aether anaestheticus Afrinol Allent 5-Allyl-1,3-benzodioxole Allylcatechol methylene ether Allyldioxybenzene methylene ether

Substance

N-Acetvlanthranilic acid N-Acetylanthranilic acid N-Acetylanthranilic acid N-Acetylanthranilic acid Acetic anhydride Acetic anhydride see Table I Acetic anhydride Acetone see Table II Acetone Methyl ethyl ketone 1-Phenyl-2-propanone 3,4-Methylenedioxyphenyl-2-propanone 3,4-Methylenedioxyphenyl-2-propanone Acetic anhydride N-Acetylanthranilic acid N-Acetylanthranilic acid N-Acetylanthranilic acid N-Acetylanthranilic acid Acetic anhydride see Table I Acetic anhydride Acetic anhydride N-Acetylanthranilic acid Anthranilic acid Anthranilic acid Anthranilic acid Phenylacetic acid Hydrochloric acid Lysergic acid Lysergic acid Lysergic acid Ergometrine Ergometrine Phenylacetic acid Sulphuric acid Phenylacetic acid N-Acetylanthranilic acid Anthranilic acid Anthranilic acid Phenylacetic acid Hydrochloric acid Phenylacetic acid Lysergic acid Acetone Sulphuric acid Phenylacetic acid Hydrochloric acid Pseudoephedrine Norephedrine Norephedrine Ethyl ether Pseudoephedrine Pseudoephedrine Safrole Safrole Safrole

1-Allyl-3,4-methylenedioxybenzene 4-Allyl-1,2-methylenedioxybenzene *m*-Allylpyrocatechin methylene ether 4-Allylpyrocatechol formaldehyde acetal Allylpyrocatechol methylene ether Ambenyl-D Amfed TD 2-Aminobenzoic acid o-Aminobenzoic acid ortho-Aminobenzoic acid 1-Amino-2-carboxybenzene ∞ -(1-Aminoethyl) benzylalcohol 2-Amino-1-phenyl-1-propanol Anaesthetic ether Anesthesia ether Anhídrido acético Anhídrido etanoico Anhydride acétique Anhydride éthanoique Anthranilic acid o-Anthranilic acid Anthranilic acid, N-acetyl Antisal 1A Appedrine Arconovina Astmaphedrine Atridine Avetol Azacyclohexane Azijnzuur anhydride BMK Basergin, -e Bellergal Benafed Benazma Benylin Benzeneacetic acid Benzene, 4-allyl-1,2-(methylenedioxy) Benzenemethanol, \forall -[1-(methylamino)ethyl]-,[R-(R*,S*)]-Benzenemethanol, \forall -[1-(methylamino)ethyl]-,[S-(R*,R*)]-Benzene, methyl-Benzene-1,2-(methylenedioxy)-4-allyl-Benzene-1,2-(methylenedioxy)-4-propenyl-1,3-Benzodioxal-5-yl-propan-2-one 1,3-Benzodioxole-5-carbaldehyde 1,3-Benzodioxole-5-carboxaldehyde 1,3-Benzodioxole, 5-(1-propenyl)-1,3-Benzodioxole, 5-(2-propenyl)-1-(1,3-Benzodioxol-5-yl)-2-propanone 1-(1,3-Benzodioxol-5-yl)-propan-2-one Benzoic acid, 2-(acetylamino)-N-(5-(Benzyl-10b-hydroxy-2-methyl)-3,6-dioxoperhydrooxazolo-(3,2-a)-pyrrolo(2,1c)pyrazin-2-yl)-D-lysergamide 5'-Benzyl-12'-hydroxy-2'methylergotaman-3',6',18-trione Benzyl methyl ketone Biophedrin BMK BOV Brexin

Substance

Safrole Safrole Safrole Safrole Safrole Pseudoephedrine Norephedrine Anthranilic acid Anthranilic acid Anthranilic acid Anthranilic acid Norephedrine Norephedrine Ethyl ether Ethyl ether Acetic anhydride Acetic anhydride Acetic anhydride Acetic anhydride see Table II Anthranilic acid N-Acetylanthranilic acid Toluene Norephedrine Ergometrine Ephedrine Pseudoephedrine Ergotamine Piperidine Acetic anhydride 1-Phenyl-2-propanone Ergometrine Ergotamine Pseudoephedrine Pseudoephedrine Pseudoephedrine Phenylacetic acid Safrole Ephedrine Pseudoephedrine Toluene Safrole Isosafrole 3,4-Methylenedioxyphenyl-2-propanone Piperonal Piperonal Isosafrole Safrole 3,4-Methylenedioxyphenyl-2-propanone 3,4-Methylenedioxyphenyl-2-propanone N-Acetylanthranilic acid Ergotamine

Ergotamine 1-Phenyl-2-propanone Ephedrine 1-Phenyl-2-propanone Sulphuric acid Pseudoephedrine

Butane-2-one **Butanone** Butanone-2 2-Butanone 3-Butanone Cafergot Cairox Caniphedrin, -e 2-Carboxyacetanilide Carboxyanilin, -e 2-Carboxyanilin, -e o-Carboxyaniline ortho-Carboxyaniline Cenafed Cetona Chameleon mineral Cheston Chlorhydric acid Chlorowodor Chlor-trimeton Decongestant CI 77755 Coldecon Condy's crystals Congestac Congesteze Control Cornocentin, -e Cornutamin Co-Tylenol **CP-25** Cryovinal Cyclopentimine Cypentyl **DAM-57** Davcare Decofed Deconamine Decongestant Syrup Dex-A-Diet Dexatrim Dextrolysergic acid levo-2-propanolamine D-Feda Diadax 9,10-Didehydro-N-(2-hydroxy-1-methylethyl)-6methylergoline-8ß-carboxamide 9,10-Didehydro-N-[(S)-2-hydroxy-1-methylethyl]-6methylergoline-8ß-carboxamide [8B(S)]-9,10-Didehydro-N-(2-hydroxy-1methylethyl)-6- methylergoline-8ß-carboxamide 9,10-Didehydro-6-methylergoline-8ß-carboxylic acid (8ß)-9,10-Didehydro-6-methylergoline-8 -carboxylic acid Diethoxyethane Diethyl ether Diethyl oxide Diet Plan with Diadax Diet Aid 3,4-Dihydroxybenzaldehyde methylene ketal Dimacol Diméthylcétal Diméthylcétone

Substance

Methyl ethyl ketone Ergotamine Potassium permanganate Ephedrine *N*-Acetylanthranilic acid Anthranilic acid Anthranilic acid Anthranilic acid Anthranilic acid Pseudoephedrine Acetone Potassium permanganate Pseudoephedrine Hydrochloric acid Hydrochloric acid Pseudoephedrine Potassium permanganate Norephedrine Potassium permanganate Pseudoephedrine Pseudoephedrine Norephedrine Ergometrine Ergotamine Pseudoephedrine Toluene Ergometrine Piperidine Piperidine Lysergic acid Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Norephedrine Norephedrine Ergometrine Pseudoephedrine Norephedrine Ergometrine Ergometrine Ergometrine Lysergic acid Lysergic acid Ethyl ether Ethyl ether Ethyl ether Norephedrine Norephedrine Piperonal Pseudoephedrine

Acetone

Acetone

3,4-Dimethylenedioxybenzaldehyde Diméthylformaldéhyde Dimethylketone Dioxyde d'éthyle Dioxymethyleneprotocatechuic aldehyde Dipping acid Disophrol Dorcol Drixora Drixoral Dwuetylowy eter Eciphin Ectasule-minus Efedrin, -a, -e Efedron Efetonina Effergot Eggophedrin, -e Elton Emprazil Endrine Ephedral Ephedrate Ephedremal Ephedrin, -a, -e, -um (-)-Ephedrin, -e Ephedrine Ephédrine l-Ephedrin, -e l(-)-Ephedrine (-)-(1R,2S)-Ephedrine (-)-erythro-Ephedrine 1(R),2(S)-erythro-(-)-Ephedrine trans-Ephedrine dl-Ephedrinum Ephedrital Ephedrivo Ephedrol Ephedronguent Ephedrosan Ephedrosst Ephedrotal Ephedsol Ephetonin, -e Ephoxamin Ergam Ergate Ergkatal Ergine Ergoatetrine Ergobasine Ergocaf Ergo Caffein Ergofar Ergoklinine Ergoline-8ß-carboxamide, 9,10 didehydro-N-(2-hydroxy-1-methylethyl)-6-methyl-, [8ß(S)] Ergoline-8ß-carboxylic acid, 9,10-didehydro-6-methyl-Ergomal Ergomar

Substance

Piperonal Acetone Acetone Ethyl ether Piperonal Sulphuric acid Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Ethyl ether Ephedrine Ephedrine Ephedrine Ephedrine Ephedrine Ergotamine Ephedrine Pseudoephedrine Pseudoephedrine Ephedrine Ephedrine Ephedrine Ephedrine Ephedrine Ephedrine see Table I Ephedrine Ephedrine Ephedrine Ephedrine Ephedrine Ephedrine Pseudoephedrine Ephedrine Ergotamine Ergotamine Ergotamine Lysergic acid Ergometrine Ergometrine Ergotamine Ergotamine Ergometrine Ergometrine Ergometrine

Ergometrine Lysergic acid Ergometrine Ergotamine

Ergomar "Nordson" Ergomed Ergomet Ergometrin, -a, -i, -um Ergometrine Ergométrine Ergometrinin, -e Ergonine Ergonovin, -e, -um Ergostabil Ergostat Ergostetrine Ergotaman-3',6',18'-trione,12'-hydroxy-2'-methyl-5'-(phenylmethyl)-, $(5\forall)$ Ergotamin, -a, -i, -um Ergotamine Ergotaminine Ergotan Ergotan-A Ergotartrat Ergotatropin Ergotocine Ergoton-A Ergoton-B Ergotrate Ermalate Ermetrin, -e Esprit pyroligneux Etér etílico Eter sulfurico Ethane,1,1'-oxybis-Ethane oxyéthane Ethanoic acid anhydride Ethanoic anhydrate Ethanoic anhydride Ether Ether éthylique Ether pro narcosi Ether sulfurique Ethoxyethane Ethyl ether Ethyl methyl ketone Ethyl oxide Etin Exmigra Exmigrex Fasupond Feda D-Feda Fedahist Fedrazil Fedrine Fema No. 2878 Femergin Fenilpropanolamina 1-Fenil-2-propanona First Sign 5-Formylbenzodioxole 5-Formyl-1,3-benzodioxole Fugoa

Substance

Ergometrine Ergometrine Ergometrine Ergometrine see Table I Ergometrine Ergometrine Ergometrine Ergometrine Ergometrine Ergotamine Ergometrine Ergotamine Ergotamine see Table I Ergotamine Ergotamine Ergotamine Ergotamine Ergotamine Ergometrine Ergotamine Ergometrine Ergometrine Ergometrine Ergometrine Acetone Ethyl ether Ethyl ether Ethyl ether Ethyl ether Acetic anhydride Acetic anhydride Acetic anhydride Ethyl ether Ethyl ether Ethyl ether Ethyl ether Ethyl ether see Table II Methyl ethyl ketone Ethyl ether Ergotamine Ergotamine Ergotamine Norephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Ephedrine Phenylacetic acid Ergotamine Norephedrine 1-Phenyl-2-propanone Pseudoephedrine Piperonal Piperonal Norephedrine Norephedrine

Fugoa N

Galpseud Geliotropin Gotamine Ergotamine Gynergen Halin Halofed Heliotropin, -e Help Hemogen 4,6,6a,7,8,9-Hexahydro-7-methylindole[4,3-fg]quinoline-9-carboxylic acid (6aR,9R)-4,6,6a,7,8,9-Hexahydro-N-[(2S)-1-hydroxyprop-2-yl]-7-methyl-indolo[4,3-fg]quinoline-9-carboxamide Ergometrine Hexahydropyridin, -e Hexazane Histalet Hydrochloric acid Hydrochloride acid 1-Hydroxy-2-methylamino-1-phenylpropane ∀-Hydroxy-β-methylaminopropylbenzene Hydroxymethylethyllysergamide N-[1-(Hydroxymethyl)ethyl]-D-lysergamide N-(2-Hydroxy-1-methylethyl)-D(+)-lysergamide *N*-[(S)-2-Hydroxy-1-methylethyl]lysergamide N-[(S)-2-Hydroxy-1-methylethyl]-D-lysergamide N-[\forall -(Hydroxymethyl)ethyl]-D-lysergamide $(\forall R.\beta R)$ - β -Hydroxy- \forall -methylphenethyl-N-methylammonium chloride (+)- $(\forall S, \beta S)$ - β -Hydroxy- \forall -methylphenethyl-N-methylammonium chloride 12'-Hydroxy-2'-methyl-5'\, (phenylmethyl)-ergotaman-3',6',18-trione 12'-Hydroxy-2'-methyl-3',6',18-trioxo-5-benzylergotaman (5'S)-12'-Hydroxy-2'-methyl-3',6',18-trioxo-5benzylergotaman-(+)-(-)-(1R,2S)-N-(1-Hydroxy-1-phenylprop-2-yl)-Nmethylammonium HCl Hydroxypropyllysergamide (+)-N-[(2S)-1-Hydroxyprop-2-yl]-D-lysergamide Indolo-(4,3-fg)-quinoline, ergotamin-3',6',18-trione Intensin I-Sedrin Isoclor Isoephedrine d-Isoephedrine Isofedrin Isofedrol Isolysergic acid Iso-phedrizem Isosafrol Isosafrole Kalii Permanganas Kaliumpermanganat

Hydrogen chloride Hydrogen sulfate Hydroot

Substance

Pseudoephedrine Piperonal

Ergotamine Pseudoephedrine Pseudoephedrine Piperonal Norephehrine Ergometrine

Lysergic acid

Piperidine Piperidine Pseudoephedrine see Table II Hydrochloric acid Hydrochloric acid Sulphuric acid Sulphuric acid Ephedrine Ephedrine Pseudoephedrine Ergometrine Ergometrine Ergometrine Ergometrine Ergometrine Ergometrine Pseudoephedrine Pseudoephedrine Ergotamine Ergotamine Ergotamine Ephedrine Ergometrine Ergometrine Ergotamine Pseudoephedrine Ephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Ephedrine Lysergic acid Ephedrine Isosafrole see Table I Potassium permanganate Potassium permanganate

Methyl ethyl ketone

Ketobutan

B-Ketonepropane **B**-Ketopropane Kontexin Kratedyn Kronofed-A Lanatrate Lexofedrin Lexophedrine Linctifed Lingraine Lingrän Lingrene Lysergic acid D-Lysergic acid (+)-Lysergic acid D(+)-Lysergic acid D(+)-Lysergic acid-\beta-hydroxyisopropylamide D-Lysergic acid 1-(hydroxymethyl)ethylamide D-Lysergic acid 2-hydroxy-1-methylethylamide D-Lysergic acid-1,2-propanolamide Margonovine Matting acid Maxiphed MDP2P 3.4-MDP-2-P MEC Medihaler-Ergotamine MEETCO MEK Methacid, -e Methane, phenyl-Methyl acetone $[R-(R^*,S^*)]-\forall$ -[1-(Methylamino)ethyl]benzenemethanol $[S-(R^*,R^*)]-\forall -[1-(Methylamino)ethyl]$ benzenemethanol ∀-[1-(Methylamino)ethyl]benzene methanol

∀-[1-(Methylamino)ethyl]benzyl alcohol

1-∀-[1-(Methylamino)ethyl]benzyl alcohol dl-∀-[1-(Methylamino)ethyl]benzyl alcohol 2-Methylamino-1-phenyl-1-propanol

2-Methylamino-1-phenylpropan-1-ol 2-Methylamino-1-phenylpropanol (1R,2S)-2-Methylamino-1-phenyl-1-propanol (1R,2S)-2-Methylamino-1-phenyl-propan-1-ol (+)-2-Methylamino-1-phenylpropan-1-ol (+)-(1S,2R)-2-(Methylamino)-1-phenyl-1-propanol (+)-(1S,2S)-2-(Methylamino)-1-phenylpropan-1-ol DL-threo-2-(Methylamino)-1-phenyl-propan-1-ol Methylbenzene Methylbenzol Methyl benzyl ketone Methyl ketone 1,2-Methylenedioxy-4-allyl-benzene 3,4-Methylenedioxy-allylbenzene 3,4-(Methylenedioxy)benzaldehyde 3,4-Methylenedioxybenzyl methyl ketone 3,4-Methylenedioxy-4-(isopropenyl)-benzene

Substance

Acetone Acetone Norephedrine Ephedrine Pseudoephedrine Ergotamine Ephedrine Ephedrine Pseudoephedrine Ergotamine Ergotamine Ergotamine see Table I Lysergic acid Lysergic acid Lysergic acid Ergometrine Ergometrine Ergometrine Ergometrine Ergometrine Sulphuric acid Pseudoephedrine 3,4-Methylenedioxyphenyl-2-propanone 3,4-Methylenedioxyphenyl-2-propanone Methyl ethyl ketone Ergotamine Methyl ethyl ketone Methyl ethyl ketone Toluene Toluene Methyl ethyl ketone Ephedrine Pseudoephedrine Ephedrine Pseudoephedrine Ephedrine Pseudoephedrine Ephedrine Ephedrine Ephedrine Pseudoephedrine Ephedrine Ephedrine Ephedrine Ephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Toluene Toluene 1-Phenyl-2-propanone Acetone Safrole Safrole Piperonal 3,4-Methylenedioxyphenyl-2-propanone Isosafrole

3,4-Methylenedioxyphenylacetone 3,4-Methylenedioxyphenyl-2-propanone 1-(3,4-Methylenedioxyphenyl)-2-propanone Méthylènedioxy-3,4-phényl propanone-2 1,2-(Methylenedioxy)-4-propenylbenzene 1,2-(Methylenedioxy)-4-propen-2-ylbenzene 3,4-(Methylenedioxy)-1-propenylbenzene Méthyléthylcétone Methyl ethyl ketone *N*-Methylnorephedrine Methyl piperonyl ketone 3,4-Metilendioxifenil-2-propanona Metiletilcetona Metriclavin, -e Metrisanol Migral Rigetamine Migretamine Migril Migwell Minims ephedrine (hydrochloride) Monydrin Mucorama Muriatic acid Mydriatin Myfedrine Naldegesic Narixan Nasa-12 Nasol NCI-CO1730 **NCI-CO7272** NCI-C55652 Neo-ergotin Neofed Neofemergen Neo-Femergin Nordhausen acid Norephedrine Novafed 120 Novahistine Novergo Obestat Octowy bezwodnik Oil of Vitriol Oranyl Otrinol 3-Oxapentane 8H-Oxazolo(3,2-a)pyrrolel(2,1-c)pyrazine, ergotam-3',6',18-trione Oxido acetico Oxido de acetilo 2-Oxobutane Oxybisethane 1-1'-Oxybis[ethane] Oxyde acétique Oxyde acétylique Oxyde d'éthyle P2P PAA Pandril

Substance

3,4-Methylenedioxyphenyl-2-propanone see Table I 3,4-Methylenedioxyphenyl-2-propanone 3,4-Methylenedioxyphenyl-2-propanone Isosafrole Isosafrole Isosafrole Methyl ethyl ketone see Table II Ephedrine 3,4-Methylenedioxyphenyl-2-propanone 3,4-Methylenedioxyphenyl-2-propanone Methyl ethyl ketone Ergometrine Ergometrine Ergotamine Ergotamine Ergotamine Ergotamine Ephedrine Norephedrine Norephedrine Hydrochloric acid Norephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Ephedrine Anthranilic acid Toluene Ephedrine Ergotamine Pseudoephedrine Ergometrine Ergometrine Sulphuric acid See Table I Pseudoephedrine Pseudoephedrine Ergometrine Norephedrine Acetic anhydride Sulphuric acid Pseudoephedrine Pseudoephedrine Ethyl ether Ergotamine Acetic anhydride Acetic anhydride Methyl ethyl ketone Ethyl ether Ethyl ether Acetic anhydride Acetic anhydride Ethyl ether 1-Phenyl-2-propanone Phenylacetic acid Ephedrine

Panergal Paragesic PediaCare Pentamethyleneamine Pentamethylenimin, -e Perhydropyridine Permanganate de potassium Permanganate of potash Permanganato potásico Permanganic acid, potassium salt Phenergan-D Phenoxine Phenylacetic acid 2-Phenylacetic acid w-Phenylacetic acid Phenylacetone ∀-Phenylacetone Phenyldrine Phenylethanoic acid 1-Phenyl-2-amino-1-propanol 1-Phenyl-1-hydroxy-2-methylaminopropane Phenyl methane 1-Phenyl-2-methylaminopropanol 1-Phenyl-2-methylamino-1-propanol 1-Phenyl-2-methylaminopropanol-1 Phenylmethyl methyl ketone 1-Phenyl-2-oxopropane Phenylpropanolamine Phénylpropanolamine Phenylpropanolaminum

Phenyl-2-propanone

Phényl-1 propanone-2

3-Phenyl-2-propanone

Piperidin, -a

Piperidine

Pipéridine

Piperonal

Pipéronal

PMK Polaramine

P2P

Procol

Proasthmin

Profedrine Pronarcol

Propadrine

Propagest

Propanone

2-Propanon, -e

Propan-2-one

Piperonalacetone

Piperonaldehyde

Piperonylaldehyde

Piperonyl methyl ketone

Potassium permanganate

2-Propanone, 1-(1,3-benzodioxol-5-yl)-

1-Phenyl-2-propanone

Substance

Ergometrine Pseudoephedrine Pseudoephedrine Piperidine Piperidine Piperidine Potassium permanganate Potassium permanganate Potassium permanganate Potassium permanganate Pseudoephedrine Norephedrine see Table II Phenylacetic acid Phenylacetic acid 1-Phenyl-2-propanone 1-Phenyl-2-propanone Norephedrine Phenylacetic acid Norephedrine Ephedrine Pseudoephedrine Toluene Ephedrine Pseudoephedrine Ephedrine Pseudoephedrine Ephedrine 1-Phenyl-2-propanone 1-Phenyl-2-propanone Norephedrine Norephedrine Norephedrine 1-Phenyl-2-propanone 1-Phenyl-2-propanone see Table I 1-Phenyl-2-propanone Piperidine see Table II Piperidine see Table I Piperonal 3,4-Methylenedioxyphenyl-2-propanone Piperonal Piperonal 3,4-Methylenedioxyphenyl-2-propanone 3,4-Methylenedioxyphenyl-2-propanone Pseudoephedrine see Table I 1-Phenyl-2-propanone Ephedrine Norephedrine Pseudoephedrine Ethyl ether Norephedrine Norephedrine Acetone Acetone Acetone 3,4-Methylenedioxyphenyl-2-propanone

2-Propanone, 1-[3,4-(methylenedioxy)phenyl]-2-Propanone, 1-phenvl 5-(1-Propenyl)-1,3-benzodioxole 5-(2-Propenyl)-1,3-benzodioxole 4-Propenylcatechol methylene ether 4-Propenyl-1,2-methylenedioxybenzene Protocatechualdehyde methylene ether Protocatechuic aldehyde methylene ether Pseudoephedrine Pseudo-éphédrine d-Pseudoephedrine (+)-Pseudoephedrine L-(+)-Pseudoephedrine (+)-(1S,2S)-Pseudoephedrine Pseudoephedrine Polistirex Pseudofrin Pyroacetic acid Pyroacetic ether Quetena de metilo Racephedrine RCRA Waste Number U117 RCRA Waste Number U141 **RCRA** Waste Number U159 RCRA Waste Number U203 RCRA Waste Number U220 Repedrina Restaslim Reukap Rhinalair Rhindecon Rhyuno oil Rigetamine Rinexin Robidrine Robitussin Rocof Ro-Fedrin Rondec Sacietyl Safrol Safrole Safrole MF Sal-Phedrine Salzsäure Samedrine Sancos Co Sanephedrine Schwefelsäure Secacornine Secagyn Secometrin, -e Secupan Seudoefedrina Seudotabs Shikimol, -e Sinarest Sine-Aid Sine-Off Sinufed Slim Caps Solvent ether

Substance

3,4-Methylenedioxyphenyl-2-propanone 1-Phenyl-2-propanone Isosafrole Safrole Isosafrole Isosafrole Piperonal Piperonal see Table I Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Acetone Acetone Acetone Ephedrine Ethyl ether Isosafrole Methyl ethyl ketone Safrole Toluene Pseudoephedrine Norephedrine Ephedrine Pseudoephedrine Norephedrine Safrole Ergotamine Norephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Norephedrine Safrole see Table I Safrole Ephedrine Hydrochloric acid Ephedrine Pseudoephedrine Ephedrine Sulphuric acid Ergometrine Ergotamine Ergometrine Ergotamine Pseudoephedrine Pseudoephedrine Safrole Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Norephedrine Ethyl ether

Spaneph Spent sulfuric acid Spirit of salt Spirit of sulfur Spray-U-Thin Stay Trim Sucrets Sudafed Sudanyl Sudelix Sudomyl Sufedrin Sufrol Sulfuric acid Sulfuric ether Sulphuric acid Suolelix Symptom 2 Syntometrine Syrtussar Takimetrin Tinaroc Toluene Toluène Tolueno ∀-Toluic acid Toluol Tolu-sol Toluylic acid ∀-Tolylic acid Triocos Triphed Tusaphed Tussafed Tussifed Tylenol Unitrol Ursinus Uteron Vencipon Vitamin L Vitamino L1 Vitriol brown oil Vitriol, oil of Wal-Phed Westrim Wigraine Zephrol

Substance

Ephedrine Sulphuric acid Hydrochloric acid Sulphuric acid Norephedrine Norephedrine Norephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Sulphuric acid Sulphuric acid Ethyl ether see Table II Pseudoephedrine Pseudoephedrine Ergometrine Norephedrine Ergometrine Norephedrine see Table II Toluene Toluene Phenylacetic acid Toluene Toluene Phenylacetic acid Phenylacetic acid Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Pseudoephedrine Ergometrine Ephedrine Anthranilic acid Anthranilic acid Sulphuric acid Sulphuric acid Pseudoephedrine Norephedrine Ergotamine Ephedrine

Substance	Base or salt	Approximate pure anhydrous base content (percentage)
Ephedrine	Base hemihydrate (0.5H ₂ O)	95
•	Hydrochloride	82
	Nitrate	72
	Sulphate (2 mol. base)	77
Ergometrine	Hydrochloride	90
	Maleate	74
	Oxalate	82
	Tartrate (2 mol. base)	81
Ergotamine	Hydrochloride	94
-	Succinate (2 mol. base)	91
	Tartrate (2 mol. base)	89
Norephedrine	Hydrochloride	80
Piperidine	Aurichloride	20
	Bitartrate	36
	Hydrochloride	70
	Nitrate	58
	Phosphate	46
	Picrate	27
	Platinichloride (2 mol. base)	29
	Thiocyanate	59
Pseudoephedrine	Hydrochloride	82
	Sulphate (2 mol. base)	77

PART THREE: TABLE SHOWING THE PURE ANHYDROUS BASE CONTENT OF SOME SCHEDULED SUBSTANCES IN THEIR SALT FORM

The above table of conversion factors should be used to convert quantities of scheduled substances in their salt form into quantities of pure anhydrous base.

PART FOUR: GOVERNMENTS THAT HAVE REQUESTED PRE-EXPORT NOTIFICATIONS PURSUANT TO ARTICLE 12, PARAGRAPH 10 (*a*), OF THE 1988 CONVENTION

All Governments of exporting countries and territories are reminded that it is an obligation to provide pre-export notifications to Governments that have requested them pursuant to article 12, paragraph 10 (a), of the United Nations Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances of 1988, which provides that:

"... upon request to the Secretary-General by the interested Party, each Party from whose territory a substance in Table I is to be exported shall ensure that, prior to such export, the following information is supplied by its competent authorities to the competent authorities of the importing country:

- "(i) Name and address of the exporter and importer and, when available, the consignee;
- "(ii) Name of the substance in Table I;
- "(iii) Quantity of the substance to be exported;
- "(iv) Expected point of entry and expected date of dispatch;
- "(v) Any other information which is mutually agreed upon by the Parties."

Governments that have requested pre-export notifications under the above-mentioned provisions are listed in the table below in alphabetical order, followed by the substance (or substances) to which the provisions should apply and the date of notification of the request transmitted by the Secretary-General to Governments.

Governments may wish to note the possibility of requesting that a pre-export notification for all substances listed in Table II of the 1988 Convention be sent as well.

Notifying Government	Substances to which pre-export notification requirement applies	Date of communication to Governments by the Secretary-General
Antigua and Barbuda ^a	All substances included in Tables I and II	5 May 2000
Argentina	All substances included in Table I	19 November 1999
Australia	Ephedrine, pseudoephedrine	26 June 2000
Belarus ^b	Ephedrine, pseudoephedrine, acetic anhydride and potassium permanganate	
Benin ^a	All substances included in Tables I and II	4 February 2000
Bolivia ^a	Acetic anhydride, potassium permanganate, acetone, ethyl ether, hydrochloric acid, sulphuric acid	12 November 2001
Brazil ^a	All substances included in Tables I and II	15 October 1999 and 15 December 1999
Canada	All substances included in Tables I and II	31 October 2005
Cayman Islands ^a	All substances included in Tables I and II	7 September 1998
China	Acetic anhydride	20 October 2000
Macao SAR ^c	All substances included in Table I	19 May 2000
Colombia ^{<i>a</i>}	All substances included in Tables I and II	14 October 1998
Costa Rica ^a	All substances included in Table I	27 September 1999
	All substances included in Table II	31 January 2005
Dominican Republic ^a	All substances included in Table II	11 September 2002
Ecuador ^a	All substances included in Tables I and II	1 August 1996
Egypt ^a	All substances included in Table I, and acetone	3 December 2004
Ethiopia ^a	All substances included in Tables I and II	17 December 1999
Haiti ^a	All substances included in Tables I and II	20 June 2002
India ^a	All substances included in Tables I and II	23 March 2000
Indonesia ^a	Acetic anhydride, <i>N</i> -acetyl anthranilic acid, ephedrine, ergometrine, ergotamine, isosafrole, 3,4- methylenedioxyphenyl-2-propanone, 1-phenyl-2-	18 February 2000

Notifying Government	Substances to which pre-export notification requirement applies	Date of communication to Governments by the Secretary-General
	propanone, piperonal, pseudoephedrine, safrole; anthranilic acid, phenylacetic acid.	
Japan	<i>N</i> -acetylanthranilic acid, ephedrine, ergometrine, ergotamine, isosafrole, lysergic acid, 3,4- methylenedioxyphenyl-2-propanone, 1-phenyl-2- propanone, piperonal, pseudoephedrine and safrole	17 December 1999
Jordan ^a	All substances included in Tables I and II	15 December 1999
Kazakhstan ^a	All substances included in Tables I and II	15 August 2003
Lebanon ^a	All substances included in Tables I and II	14 June 2002
Madagascar ^a	All substances included in Tables I and II	31 March 2003
Malaysia ^a	All substances included in Table I, anthranilic acid, ethyl ether, phenylacetic acid and piperidine	21 August 1998
Maldives ^a	All substances included in Tables I and II	6 April 2005
Mexico ^a	All substances included in Tables I and II	6 April 2005
Nigeria ^a	All substances included in Tables I and II	28 February 2000
Pakistan ^a	Acetic anhydride, ephedrine, potassium permanganate, pseudoephedrine and acetone	12 November 2001
Paraguay ^a	All substances included in Tables I and II	3 February 2000
Peru ^a	Acetic anhydride, ephedrine, ergometrine, ergotamine, lysergic acid, norephedrine, potassium permanganate, pseudoephedrine, acetone, ethyl ether, hydrochloric acid, methyl ethyl ketone, sulphuric acid and toluene	27 September 1999
Philippines ^a	All substances included in Tables I and II	16 April 1999
Republic of Moldova ^a	All substances included in Tables I and II	29 December 1998
Romania ^a	Acetic anhydride, potassium permanganate and all substances included in Table II	17 November 2000
Russian Federation ^a	Acetic anhydride, ephedrine, ergometrine, ergotamine, 3,4-methylenedioxyphenyl-2-propanone, norephedrine, 1-phenyl-2-propanone, potassium permanganate, pseudoephedrine and all substances included in Table II	21 February 2000
Saudi Arabia ^a	All substances included in Tables I and II	18 October 1998
Singapore	All substances included in Table I	5 May 2000
South Africa ^{<i>a</i>}	All substances included in Table I and anthranilic acid	11 August 1999
Sri Lanka	All substances included in Table I	19 November 1999
Tajikistan ^a	All substances included in Tables I and II	7 February 2000
Turkey ^a	All substances included in Tables I and II	2 November 1995
United Arab Emirates ^a	All substances included in Tables I and II	26 September 1995
United Republic of Tanzania ^a	All substances included in Tables I and II	10 December 2002
United States of America	Acetic anhydride, ephedrine and pseudoephedrine	2 June 1995 and 19 January 2001
Venezuela (Bolivarian Republic of) ^a	All substances included in Tables I and II	27 March 2000

Notifying Government	Substances to which pre-export notification requirement applies	Date of communication to Governments by the Secretary-General
European Union, on behalf of all its States members:	All substances included in Table I	19 May 2000
Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, United Kingdom		

Note: Territories are in italics.

^{*a*} The Secretary-General has informed all Governments of the request of the notifying Government to receive a pre-export notification for substances listed in Table II of the 1988 Convention as well.

^b Not yet notified by the Secretary-General as, in a subsequent communication, the Government of Belarus requested the Secretary-General to suspend such notification until a national mechanism to receive and process pre-export notifications is established.

^c Not yet notified by the Secretary-General. With effect from 20 December 1999, the territory of Macao became the Macao Special Administrative Region (SAR) of China.