State of Minnesota

HOUSE OF REPRESENTATIVES

NINETY-SECOND SESSION

H. F. No. 3595

02/17/2022 Authored by Edelson, Robbins and Christensen
The bill was read for the first time and referred to the Committee on Health Finance and Policy

A bill for an act

relating to health; providing for the regulation of certain products containing cannabinoids; limiting the sale of products containing cannabinoids to individuals 21 years of age or older; requiring labeling of cannabinoid products to contain a barcode or matrix barcode; establishing that products containing cannabinoids that meet the regulation requirements are not controlled substances; amending Minnesota Statutes 2020, sections 151.72, subdivisions 1, 2, 3, 4, 6; 152.02, subdivision 2; Minnesota Statutes 2021 Supplement, section 151.72, subdivision 5.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA:

ARTICLE 1

REGULATION OF PRODUCTS CONTAINING CANNABINOIDS

Section 1. Minnesota Statutes 2020, section 151.72, subdivision 1, is amended to read:

Subdivision 1. **Definitions.** (a) For the purposes of this section, the following terms have the meanings given.

(b) "Certified hemp" means hemp plants that have been tested and found to meet the requirements of chapter 18K and the rules adopted thereunder.

~~(b)~~ (c) "Hemp" has the meaning given to "industrial hemp" in section 18K.02, subdivision 3.

(d) "Label" has the meaning given in section 151.01, subdivision 18.

~~(c)~~ (e) "Labeling" means all labels and other written, printed, or graphic matter that are:

(1) affixed to the immediate container in which a product regulated under this section is sold; ~~or~~

(2) provided, in any manner, with the immediate container, including but not limited to outer containers, wrappers, package inserts, brochures, or pamphlets.; or

(3) provided on that portion of a manufacturer's website that is linked by a scannable barcode or matrix barcode.

(f) "Matrix barcode" means a code that stores data in a two-dimensional array of geometrically shaped dark and light cells capable of being read by the camera on a smartphone or other mobile device.

(g) "Nonintoxicating cannabinoid" means substances extracted from certified hemp plants that do not produce intoxicating effects when consumed by any route of administration.

Sec. 2. Minnesota Statutes 2020, section 151.72, subdivision 2, is amended to read:

Subd. 2. **Scope.** (a) This section applies to the sale of any product that contains ~~nonintoxicating~~ cannabinoids extracted from hemp ~~other than food~~ and that is intended for human or animal consumption by any route of administration.

(b) This section does not apply to any product dispensed by a registered medical cannabis manufacturer pursuant to sections 152.22 to 152.37.

Sec. 3. Minnesota Statutes 2020, section 151.72, subdivision 3, is amended to read:

Subd. 3. **Sale of cannabinoids derived from hemp.** (a) Notwithstanding any other section of this chapter, a product containing nonintoxicating cannabinoids may be sold for human or animal consumption if all of the requirements of this section are met, provided that such product does not contain more than 0.3 percent of any tetrahydrocannabinol.

(b) No other substance extracted or otherwise derived from hemp may be sold for human consumption if the substance is intended:

(1) for external or internal use in the diagnosis, cure, mitigation, treatment, or prevention of disease in humans or other animals; or

(2) to affect the structure or any function of the bodies of humans or other animals.

(c) No product containing any cannabinoid or tetrahydrocannabinol extracted or otherwise derived from hemp may be sold to any individual who is under the age of 21.

(d) Products that meet the requirements of this section are not controlled substances under section 152.02.

Sec. 4. Minnesota Statutes 2020, section 151.72, subdivision 4, is amended to read:

Subd. 4. **Testing requirements.** (a) A manufacturer of a product regulated under this section must submit representative samples of the product to an independent, accredited laboratory in order to certify that the product complies with the standards adopted by the board. Testing must be consistent with generally accepted industry standards for herbal and botanical substances, and, at a minimum, the testing must confirm that the product:

(1) contains the amount or percentage of cannabinoids that is stated on the label of the product;

(2) does not contain more than trace amounts of any mold, pesticides, fertilizers, or heavy metals; and

(3) does not contain ~~a delta-9 tetrahydrocannabinol concentration that exceeds the concentration permitted for industrial hemp as defined in section 18K.02, subdivision 3~~ more than 0.3 percent of any tetrahydrocannabinol.

(b) Upon the request of the board, the manufacturer of the product must provide the board with the results of the testing required in this section.

(c) Testing of the hemp from which the nonintoxicating cannabinoid was derived, or possession of a certificate of analysis for such hemp, does not meet the testing requirements of this section.

Sec. 5. Minnesota Statutes 2021 Supplement, section 151.72, subdivision 5, is amended to read:

Subd. 5. **Labeling requirements.** (a) A product regulated under this section must bear a label that contains, at a minimum:

(1) the name, location, contact phone number, and website of the manufacturer of the product;

(2) the name and address of the independent, accredited laboratory used by the manufacturer to test the product; and

(3) an accurate statement of the amount or percentage of cannabinoids found in each unit of the product meant to be consumed.~~; or~~

~~(4) instead of the information required in clauses (1) to (3), a scannable bar code or QR code that links to the manufacturer's website.~~

(b) The information in paragraph (a) may be provided on an outer package if the immediate container that holds the product is too small to contain all of the information.

(c) The information required in paragraph (a) may be provided through the use of a scannable barcode or matrix barcode that links to a page on the manufacturer's website if that page contains all of the information required by this subdivision.

(d) The label must also include a statement stating that ~~this~~ the product does not claim to diagnose, treat, cure, or prevent any disease and has not been evaluated or approved by the United States Food and Drug Administration (FDA) unless the product has been so approved.

~~(b)~~ (e) The information required ~~to be on the label~~ by this subdivision must be prominently and conspicuously placed ~~and~~ on the label or displayed on the website in terms that can be easily read and understood by the consumer.

~~(c)~~ (f) The ~~label~~ labeling must not contain any claim that the product may be used or is effective for the prevention, treatment, or cure of a disease or that it may be used to alter the structure or function of human or animal bodies, unless the claim has been approved by the FDA.

Sec. 6. Minnesota Statutes 2020, section 151.72, subdivision 6, is amended to read:

Subd. 6. **Enforcement.** (a) A product sold under this section shall be considered an adulterated drug if:

(1) it consists, in whole or in part, of any filthy, putrid, or decomposed substance;

(2) it has been produced, prepared, packed, or held under unsanitary conditions where it may have been rendered injurious to health, or where it may have been contaminated with filth;

(3) its container is composed, in whole or in part, of any poisonous or deleterious substance that may render the contents injurious to health;

(4) it contains any color additives or excipients that have been found by the FDA to be unsafe for human or animal consumption; ~~or~~

(5) it contains an amount or percentage of nonintoxicating cannabinoids that is different than the amount or percentage stated on the label~~.~~;

(6) it contains more than 0.3 percent of any tetrahydrocannabinol; or

(7) it contains more than trace amounts of mold, pesticides, fertilizers, or heavy metals.

(b) A product sold under this section shall be considered a misbranded drug if the product's labeling is false or misleading in any manner or in violation of the requirements of this section.

(c) The board's authority to issue cease and desist orders under section 151.06; to embargo adulterated and misbranded drugs under section 151.38; and to seek injunctive relief under section 214.11, extends to any violation of this section.

ARTICLE 2
CONFORMING CHANGE

Section 1. Minnesota Statutes 2020, section 152.02, subdivision 2, is amended to read:

Subd. 2. **Schedule I.** (a) Schedule I consists of the substances listed in this subdivision.

(b) Opiates. Unless specifically excepted or unless listed in another schedule, any of the following substances, including their analogs, isomers, esters, ethers, salts, and salts of isomers, esters, and ethers, whenever the existence of the analogs, isomers, esters, ethers, and salts is possible:

(1) acetylmethadol;

(2) allylprodine;

(3) alphacetylmethadol (except levo-alphacetylmethadol, also known as levomethadyl acetate);

(4) alphameprodine;

(5) alphamethadol;

(6) alpha-methylfentanyl benzethidine;

(7) betacetylmethadol;

(8) betameprodine;

(9) betamethadol;

(10) betaprodine;

(11) clonitazene;

(12) dextromoramide;

(13) diampromide;

(14) diethyliambutene;

(15) difenoxin;

(16) dimenoxadol;

(17) dimepheptanol;

(18) dimethyliambutene;

(19) dioxaphetyl butyrate;

(20) dipipanone;

(21) ethylmethylthiambutene;

(22) etonitazene;

(23) etoxeridine;

(24) furethidine;

(25) hydroxypethidine;

(26) ketobemidone;

(27) levomoramide;

(28) levophenacylmorphan;

(29) 3-methylfentanyl;

(30) acetyl-alpha-methylfentanyl;

(31) alpha-methylthiofentanyl;

(32) benzylfentanyl beta-hydroxyfentanyl;

(33) beta-hydroxy-3-methylfentanyl;

(34) 3-methylthiofentanyl;

(35) thenylfentanyl;

(36) thiofentanyl;

(37) para-fluorofentanyl;

(38) morpheridine;

(39) 1-methyl-4-phenyl-4-propionoxypiperidine;

(40) noracymethadol;

(41) norlevorphanol;

(42) normethadone;

(43) norpipanone;

(44) 1-(2-phenylethyl)-4-phenyl-4-acetoxypiperidine (PEPAP);

(45) phenadoxone;

(46) phenampromide;

(47) phenomorphan;

(48) phenoperidine;

(49) piritramide;

(50) proheptazine;

(51) properidine;

(52) propiram;

(53) racemoramide;

(54) tilidine;

(55) trimeperidine;

(56) N-(1-Phenethylpiperidin-4-yl)-N-phenylacetamide (acetyl fentanyl);

(57) 3,4-dichloro-N-[(1R,2R)-2-(dimethylamino)cyclohexyl]-N-methylbenzamide(U47700);

(58) N-phenyl-N-[1-(2-phenylethyl)piperidin-4-yl]furan-2-carboxamide(furanylfentanyl);

(59) 4-(4-bromophenyl)-4-dimethylamino-1-phenethylcyclohexanol (bromadol);

(60) N-(1-phenethylpiperidin-4-yl)-N-phenylcyclopropanecarboxamide (Cyclopropryl fentanyl);

(61) N-(1-phenethylpiperidin-4-yl)-N-phenylbutanamide) (butyryl fentanyl);

(62) 1-cyclohexyl-4-(1,2-diphenylethyl)piperazine) (MT-45);

(63) N-(1-phenethylpiperidin-4-yl)-N-phenylcyclopentanecarboxamide (cyclopentyl fentanyl);

(64) N-(1-phenethylpiperidin-4-yl)-N-phenylisobutyramide (isobutyryl fentanyl);

(65) N-(1-phenethylpiperidin-4-yl)-N-phenylpentanamide (valeryl fentanyl);

(66) N-(4-chlorophenyl)-N-(1-phenethylpiperidin-4-yl)isobutyramide (para-chloroisobutyryl fentanyl);

(67) N-(4-fluorophenyl)-N-(1-phenethylpiperidin-4-yl)butyramide (para-fluorobutyryl fentanyl);

(68) N-(4-methoxyphenyl)-N-(1-phenethylpiperidin-4-yl)butyramide (para-methoxybutyryl fentanyl);

(69) N-(2-fluorophenyl)-2-methoxy-N-(1-phenethylpiperidin-4-yl)acetamide (ocfentanil);

(70) N-(4-fluorophenyl)-N-(1-phenethylpiperidin-4-yl)isobutyramide (4-fluoroisobutyryl fentanyl or para-fluoroisobutyryl fentanyl);

(71) N-(1-phenethylpiperidin-4-yl)-N-phenylacrylamide (acryl fentanyl or acryloylfentanyl);

(72) 2-methoxy-N-(1-phenethylpiperidin-4-yl)-N-phenylacetamide (methoxyacetyl fentanyl);

(73) N-(2-fluorophenyl)-N-(1-phenethylpiperidin-4-yl)propionamide (ortho-fluorofentanyl or 2-fluorofentanyl);

(74) N-(1-phenethylpiperidin-4-yl)-N-phenyltetrahydrofuran-2-carboxamide (tetrahydrofuranyl fentanyl); and

(75) Fentanyl-related substances, their isomers, esters, ethers, salts and salts of isomers, esters and ethers, meaning any substance not otherwise listed under another federal Administration Controlled Substance Code Number or not otherwise listed in this section, and for which no exemption or approval is in effect under section 505 of the Federal Food, Drug, and Cosmetic Act, United States Code , title 21, section 355, that is structurally related to fentanyl by one or more of the following modifications:

(i) replacement of the phenyl portion of the phenethyl group by any monocycle, whether or not further substituted in or on the monocycle;

(ii) substitution in or on the phenethyl group with alkyl, alkenyl, alkoxyl, hydroxyl, halo, haloalkyl, amino, or nitro groups;

(iii) substitution in or on the piperidine ring with alkyl, alkenyl, alkoxyl, ester, ether, hydroxyl, halo, haloalkyl, amino, or nitro groups;

(iv) replacement of the aniline ring with any aromatic monocycle whether or not further substituted in or on the aromatic monocycle; or

(v) replacement of the N-propionyl group by another acyl group.

(c) Opium derivatives. Any of the following substances, their analogs, salts, isomers, and salts of isomers, unless specifically excepted or unless listed in another schedule, whenever the existence of the analogs, salts, isomers, and salts of isomers is possible:

(1) acetorphine;

(2) acetyldihydrocodeine;

(3) benzylmorphine;

(4) codeine methylbromide;

(5) codeine-n-oxide;

(6) cyprenorphine;

(7) desomorphine;

(8) dihydromorphine;

(9) drotebanol;

(10) etorphine;

(11) heroin;

(12) hydromorphinol;

(13) methyldesorphine;

(14) methyldihydromorphine;

(15) morphine methylbromide;

(16) morphine methylsulfonate;

(17) morphine-n-oxide;

(18) myrophine;

(19) nicocodeine;

(20) nicomorphine;

(21) normorphine;

(22) pholcodine; and

(23) thebacon.

(d) Hallucinogens. Any material, compound, mixture or preparation which contains any quantity of the following substances, their analogs, salts, isomers (whether optical, positional, or geometric), and salts of isomers, unless specifically excepted or unless listed in another schedule, whenever the existence of the analogs, salts, isomers, and salts of isomers is possible:

(1) methylenedioxy amphetamine;

(2) methylenedioxymethamphetamine;

(3) methylenedioxy-N-ethylamphetamine (MDEA);

(4) n-hydroxy-methylenedioxyamphetamine;

(5) 4-bromo-2,5-dimethoxyamphetamine (DOB);

(6) 2,5-dimethoxyamphetamine (2,5-DMA);

(7) 4-methoxyamphetamine;

(8) 5-methoxy-3, 4-methylenedioxyamphetamine;

(9) alpha-ethyltryptamine;

(10) bufotenine;

(11) diethyltryptamine;

(12) dimethyltryptamine;

(13) 3,4,5-trimethoxyamphetamine;

(14) 4-methyl-2, 5-dimethoxyamphetamine (DOM);

(15) ibogaine;

(16) lysergic acid diethylamide (LSD);

(17) mescaline;

(18) parahexyl;

(19) N-ethyl-3-piperidyl benzilate;

(20) N-methyl-3-piperidyl benzilate;

(21) psilocybin;

(22) psilocyn;

(23) tenocyclidine (TPCP or TCP);

(24) N-ethyl-1-phenyl-cyclohexylamine (PCE);

(25) 1-(1-phenylcyclohexyl) pyrrolidine (PCPy);

(26) 1-[1-(2-thienyl)cyclohexyl]-pyrrolidine (TCPy);

(27) 4-chloro-2,5-dimethoxyamphetamine (DOC);

(28) 4-ethyl-2,5-dimethoxyamphetamine (DOET);

(29) 4-iodo-2,5-dimethoxyamphetamine (DOI);

(30) 4-bromo-2,5-dimethoxyphenethylamine (2C-B);

(31) 4-chloro-2,5-dimethoxyphenethylamine (2C-C);

(32) 4-methyl-2,5-dimethoxyphenethylamine (2C-D);

(33) 4-ethyl-2,5-dimethoxyphenethylamine (2C-E);

(34) 4-iodo-2,5-dimethoxyphenethylamine (2C-I);

(35) 4-propyl-2,5-dimethoxyphenethylamine (2C-P);

(36) 4-isopropylthio-2,5-dimethoxyphenethylamine (2C-T-4);

(37) 4-propylthio-2,5-dimethoxyphenethylamine (2C-T-7);

(38) 2-(8-bromo-2,3,6,7-tetrahydrofuro [2,3-f][1]benzofuran-4-yl)ethanamine (2-CB-FLY);

(39) bromo-benzodifuranyl-isopropylamine (Bromo-DragonFLY);

(40) alpha-methyltryptamine (AMT);

(41) N,N-diisopropyltryptamine (DiPT);

(42) 4-acetoxy-N,N-dimethyltryptamine (4-AcO-DMT);

(43) 4-acetoxy-N,N-diethyltryptamine (4-AcO-DET);

(44) 4-hydroxy-N-methyl-N-propyltryptamine (4-HO-MPT);

(45) 4-hydroxy-N,N-dipropyltryptamine (4-HO-DPT);

(46) 4-hydroxy-N,N-diallyltryptamine (4-HO-DALT);

(47) 4-hydroxy-N,N-diisopropyltryptamine (4-HO-DiPT);

(48) 5-methoxy-N,N-diisopropyltryptamine (5-MeO-DiPT);

(49) 5-methoxy-α-methyltryptamine (5-MeO-AMT);

(50) 5-methoxy-N,N-dimethyltryptamine (5-MeO-DMT);

(51) 5-methylthio-N,N-dimethyltryptamine (5-MeS-DMT);

(52) 5-methoxy-N-methyl-N-isopropyltryptamine (5-MeO-MiPT);

(53) 5-methoxy-α-ethyltryptamine (5-MeO-AET);

(54) 5-methoxy-N,N-dipropyltryptamine (5-MeO-DPT);

(55) 5-methoxy-N,N-diethyltryptamine (5-MeO-DET);

(56) 5-methoxy-N,N-diallyltryptamine (5-MeO-DALT);

(57) methoxetamine (MXE);

(58) 5-iodo-2-aminoindane (5-IAI);

(59) 5,6-methylenedioxy-2-aminoindane (MDAI);

(60) 2-(4-bromo-2,5-dimethoxyphenyl)-N-(2-methoxybenzyl)ethanamine (25B-NBOMe);

(61) 2-(4-chloro-2,5-dimethoxyphenyl)-N-(2-methoxybenzyl)ethanamine (25C-NBOMe);

(62) 2-(4-iodo-2,5-dimethoxyphenyl)-N-(2-methoxybenzyl)ethanamine (25I-NBOMe);

(63) 2-(2,5-Dimethoxyphenyl)ethanamine (2C-H);

(64) 2-(4-Ethylthio-2,5-dimethoxyphenyl)ethanamine (2C-T-2);

(65) N,N-Dipropyltryptamine (DPT);

(66) 3-[1-(Piperidin-1-yl)cyclohexyl]phenol (3-HO-PCP);

(67) N-ethyl-1-(3-methoxyphenyl)cyclohexanamine (3-MeO-PCE);

(68) 4-[1-(3-methoxyphenyl)cyclohexyl]morpholine (3-MeO-PCMo);

(69) 1-[1-(4-methoxyphenyl)cyclohexyl]-piperidine (methoxydine, 4-MeO-PCP);

(70) 2-(2-Chlorophenyl)-2-(ethylamino)cyclohexan-1-one (N-Ethylnorketamine, ethketamine, NENK);

(71) methylenedioxy-N,N-dimethylamphetamine (MDDMA);

(72) 3-(2-Ethyl(methyl)aminoethyl)-1H-indol-4-yl (4-AcO-MET); and

(73) 2-Phenyl-2-(methylamino)cyclohexanone (deschloroketamine).

(e) Peyote. All parts of the plant presently classified botanically as Lophophora williamsii Lemaire, whether growing or not, the seeds thereof, any extract from any part of the plant, and every compound, manufacture, salts, derivative, mixture, or preparation of the plant,

its seeds or extracts. The listing of peyote as a controlled substance in Schedule I does not apply to the nondrug use of peyote in bona fide religious ceremonies of the American Indian Church, and members of the American Indian Church are exempt from registration. Any person who manufactures peyote for or distributes peyote to the American Indian Church, however, is required to obtain federal registration annually and to comply with all other requirements of law.

(f) Central nervous system depressants. Unless specifically excepted or unless listed in another schedule, any material compound, mixture, or preparation which contains any quantity of the following substances, their analogs, salts, isomers, and salts of isomers whenever the existence of the analogs, salts, isomers, and salts of isomers is possible:

(1) mecloqualone;

(2) methaqualone;

(3) gamma-hydroxybutyric acid (GHB), including its esters and ethers;

(4) flunitrazepam;

(5) 2-(2-Methoxyphenyl)-2-(methylamino)cyclohexanone (2-MeO-2-deschloroketamine, methoxyketamine);

(6) tianeptine;

(7) clonazolam;

(8) etizolam;

(9) flubromazolam; and

(10) flubromazepam.

(g) Stimulants. Unless specifically excepted or unless listed in another schedule, any material compound, mixture, or preparation which contains any quantity of the following substances, their analogs, salts, isomers, and salts of isomers whenever the existence of the analogs, salts, isomers, and salts of isomers is possible:

(1) aminorex;

(2) cathinone;

(3) fenethylline;

(4) methcathinone;

(5) methylaminorex;

(6) N,N-dimethylamphetamine;

(7) N-benzylpiperazine (BZP);

(8) methylmethcathinone (mephedrone);

(9) 3,4-methylenedioxy-N-methylcathinone (methylone);

(10) methoxymethcathinone (methedrone);

(11) methylenedioxypyrovalerone (MDPV);

(12) 3-fluoro-N-methylcathinone (3-FMC);

(13) methylethcathinone (MEC);

(14) 1-benzofuran-6-ylpropan-2-amine (6-APB);

(15) dimethylmethcathinone (DMMC);

(16) fluoroamphetamine;

(17) fluoromethamphetamine;

(18) α-methylaminobutyrophenone (MABP or buphedrone);

(19) 1-(1,3-benzodioxol-5-yl)-2-(methylamino)butan-1-one (butylone);

(20) 2-(methylamino)-1-(4-methylphenyl)butan-1-one (4-MEMABP or BZ-6378);

(21) 1-(naphthalen-2-yl)-2-(pyrrolidin-1-yl) pentan-1-one (naphthylpyrovalerone or naphyrone);

(22) (alpha-pyrrolidinopentiophenone (alpha-PVP);

(23) (RS)-1-(4-methylphenyl)-2-(1-pyrrolidinyl)-1-hexanone (4-Me-PHP or MPHP);

(24) 2-(1-pyrrolidinyl)-hexanophenone (Alpha-PHP);

(25) 4-methyl-N-ethylcathinone (4-MEC);

(26) 4-methyl-alpha-pyrrolidinopropiophenone (4-MePPP);

(27) 2-(methylamino)-1-phenylpentan-1-one (pentedrone);

(28) 1-(1,3-benzodioxol-5-yl)-2-(methylamino)pentan-1-one (pentylone);

(29) 4-fluoro-N-methylcathinone (4-FMC);

(30) 3,4-methylenedioxy-N-ethylcathinone (ethylone);

(31) alpha-pyrrolidinobutiophenone (α-PBP);

(32) 5-(2-Aminopropyl)-2,3-dihydrobenzofuran (5-APDB);

(33) 1-phenyl-2-(1-pyrrolidinyl)-1-heptanone (PV8);

(34) 6-(2-Aminopropyl)-2,3-dihydrobenzofuran (6-APDB);

(35) 4-methyl-alpha-ethylaminopentiophenone (4-MEAPP);

(36) 4'-chloro-alpha-pyrrolidinopropiophenone (4'-chloro-PPP);

(37) 1-(1,3-Benzodioxol-5-yl)-2-(dimethylamino)butan-1-one (dibutylone, bk-DMBDB);

(38) 1-(3-chlorophenyl) piperazine (meta-chlorophenylpiperazine or mCPP);

(39) 1-(1,3-benzodioxol-5-yl)-2-(ethylamino)-pentan-1-one (N-ethylpentylone, ephylone); and

(40) any other substance, except bupropion or compounds listed under a different schedule, that is structurally derived from 2-aminopropan-1-one by substitution at the 1-position with either phenyl, naphthyl, or thiophene ring systems, whether or not the compound is further modified in any of the following ways:

(i) by substitution in the ring system to any extent with alkyl, alkylenedioxy, alkoxy, haloalkyl, hydroxyl, or halide substituents, whether or not further substituted in the ring system by one or more other univalent substituents;

(ii) by substitution at the 3-position with an acyclic alkyl substituent;

(iii) by substitution at the 2-amino nitrogen atom with alkyl, dialkyl, benzyl, or methoxybenzyl groups; or

(iv) by inclusion of the 2-amino nitrogen atom in a cyclic structure.

(h) Marijuana, tetrahydrocannabinols, and synthetic cannabinoids. Unless specifically excepted or unless listed in another schedule, any natural or synthetic material, compound, mixture, or preparation that contains any quantity of the following substances, their analogs, isomers, esters, ethers, salts, and salts of isomers, esters, and ethers, whenever the existence of the isomers, esters, ethers, or salts is possible:

(1) marijuana;

(2) tetrahydrocannabinols naturally contained in a plant of the genus Cannabis <u>except that a product containing tetrahydrocannabinols is not included if it meets the requirements of section 151.72</u>, synthetic equivalents of the substances contained in the cannabis plant or in the resinous extractives of the plant, or synthetic substances with similar chemical structure and pharmacological activity to those substances contained in the plant or resinous

extract, including, but not limited to, 1 cis or trans tetrahydrocannabinol, 6 cis or trans tetrahydrocannabinol, and 3,4 cis or trans tetrahydrocannabinol;

(3) synthetic cannabinoids, including the following substances:

(i) Naphthoylindoles, which are any compounds containing a 3-(1-napthoyl)indole structure with substitution at the nitrogen atom of the indole ring by an alkyl, haloalkyl, alkenyl, cycloalkylmethyl, cycloalkylethyl, 1-(N-methyl-2-piperidinyl)methyl or 2-(4-morpholinyl)ethyl group, whether or not further substituted in the indole ring to any extent and whether or not substituted in the naphthyl ring to any extent. Examples of naphthoylindoles include, but are not limited to:

(A) 1-Pentyl-3-(1-naphthoyl)indole (JWH-018 and AM-678);

(B) 1-Butyl-3-(1-naphthoyl)indole (JWH-073);

(C) 1-Pentyl-3-(4-methoxy-1-naphthoyl)indole (JWH-081);

(D) 1-[2-(4-morpholinyl)ethyl]-3-(1-naphthoyl)indole (JWH-200);

(E) 1-Propyl-2-methyl-3-(1-naphthoyl)indole (JWH-015);

(F) 1-Hexyl-3-(1-naphthoyl)indole (JWH-019);

(G) 1-Pentyl-3-(4-methyl-1-naphthoyl)indole (JWH-122);

(H) 1-Pentyl-3-(4-ethyl-1-naphthoyl)indole (JWH-210);

(I) 1-Pentyl-3-(4-chloro-1-naphthoyl)indole (JWH-398);

(J) 1-(5-fluoropentyl)-3-(1-naphthoyl)indole (AM-2201).

(ii) Napthylmethylindoles, which are any compounds containing a 1H-indol-3-yl-(1-naphthyl)methane structure with substitution at the nitrogen atom of the indole ring by an alkyl, haloalkyl, alkenyl, cycloalkylmethyl, cycloalkylethyl, 1-(N-methyl-2-piperidinyl)methyl or 2-(4-morpholinyl)ethyl group, whether or not further substituted in the indole ring to any extent and whether or not substituted in the naphthyl ring to any extent. Examples of naphthylmethylindoles include, but are not limited to:

(A) 1-Pentyl-1H-indol-3-yl-(1-naphthyl)methane (JWH-175);

(B) 1-Pentyl-1H-indol-3-yl-(4-methyl-1-naphthyl)methane (JWH-184).

(iii) Naphthoylpyrroles, which are any compounds containing a 3-(1-naphthoyl)pyrrole structure with substitution at the nitrogen atom of the pyrrole ring by an alkyl, haloalkyl, alkenyl, cycloalkylmethyl, cycloalkylethyl, 1-(N-methyl-2-piperidinyl)methyl or 2-(4-morpholinyl)ethyl group whether or not further substituted in the pyrrole ring to any

extent, whether or not substituted in the naphthyl ring to any extent. Examples of naphthoylpyrroles include, but are not limited to, (5-(2-fluorophenyl)-1-pentylpyrrol-3-yl)-naphthalen-1-ylmethanone (JWH-307).

(iv) Naphthylmethylindenes, which are any compounds containing a naphthylideneindene structure with substitution at the 3-position of the indene ring by an alkyl, haloalkyl, alkenyl, cycloalkylmethyl, cycloalkylethyl, 1-(N-methyl-2-piperidinyl)methyl or 2-(4-morpholinyl)ethyl group whether or not further substituted in the indene ring to any extent, whether or not substituted in the naphthyl ring to any extent. Examples of naphthylemethylindenes include, but are not limited to, E-1-[1-(1-naphthalenylmethylene)-1H-inden-3-yl]pentane (JWH-176).

(v) Phenylacetylindoles, which are any compounds containing a 3-phenylacetylindole structure with substitution at the nitrogen atom of the indole ring by an alkyl, haloalkyl, alkenyl, cycloalkylmethyl, cycloalkylethyl, 1-(N-methyl-2-piperidinyl)methyl or 2-(4-morpholinyl)ethyl group whether or not further substituted in the indole ring to any extent, whether or not substituted in the phenyl ring to any extent. Examples of phenylacetylindoles include, but are not limited to:

(A) 1-(2-cyclohexylethyl)-3-(2-methoxyphenylacetyl)indole (RCS-8);

(B) 1-pentyl-3-(2-methoxyphenylacetyl)indole (JWH-250);

(C) 1-pentyl-3-(2-methylphenylacetyl)indole (JWH-251);

(D) 1-pentyl-3-(2-chlorophenylacetyl)indole (JWH-203).

(vi) Cyclohexylphenols, which are compounds containing a 2-(3-hydroxycyclohexyl)phenol structure with substitution at the 5-position of the phenolic ring by an alkyl, haloalkyl, alkenyl, cycloalkylmethyl, cycloalkylethyl, 1-(N-methyl-2-piperidinyl)methyl or 2-(4-morpholinyl)ethyl group whether or not substituted in the cyclohexyl ring to any extent. Examples of cyclohexylphenols include, but are not limited to:

(A) 5-(1,1-dimethylheptyl)-2-[(1R,3S)-3-hydroxycyclohexyl]-phenol (CP 47,497);

(B) 5-(1,1-dimethyloctyl)-2-[(1R,3S)-3-hydroxycyclohexyl]-phenol (Cannabicyclohexanol or CP 47,497 C8 homologue);

(C) 5-(1,1-dimethylheptyl)-2-[(1R,2R)-5-hydroxy-2-(3-hydroxypropyl)cyclohexyl] -phenol (CP 55,940).

(vii) Benzoylindoles, which are any compounds containing a 3-(benzoyl)indole structure with substitution at the nitrogen atom of the indole ring by an alkyl, haloalkyl, alkenyl, cycloalkylmethyl, cycloalkylethyl, 1-(N-methyl-2-piperidinyl)methyl or 2-(4-morpholinyl)ethyl group whether or not further substituted in the indole ring to any extent and whether or not substituted in the phenyl ring to any extent. Examples of benzoylindoles include, but are not limited to:

(A) 1-Pentyl-3-(4-methoxybenzoyl)indole (RCS-4);

(B) 1-(5-fluoropentyl)-3-(2-iodobenzoyl)indole (AM-694);

(C) (4-methoxyphenyl-[2-methyl-1-(2-(4-morpholinyl)ethyl)indol-3-yl]methanone (WIN 48,098 or Pravadoline).

(viii) Others specifically named:

(A) (6aR,10aR)-9-(hydroxymethyl)-6,6-dimethyl-3-(2-methyloctan-2-yl) -6a,7,10,10a-tetrahydrobenzo[c]chromen-1-ol (HU-210);

(B) (6aS,10aS)-9-(hydroxymethyl)-6,6-dimethyl-3-(2-methyloctan-2-yl) -6a,7,10,10a-tetrahydrobenzo[c]chromen-1-ol (Dexanabinol or HU-211);

(C) 2,3-dihydro-5-methyl-3-(4-morpholinylmethyl)pyrrolo[1,2,3-de] -1,4-benzoxazin-6-yl-1-naphthalenylmethanone (WIN 55,212-2);

(D) (1-pentylindol-3-yl)-(2,2,3,3-tetramethylcyclopropyl)methanone (UR-144);

(E) (1-(5-fluoropentyl)-1H-indol-3-yl)(2,2,3,3-tetramethylcyclopropyl)methanone (XLR-11);

(F) 1-pentyl-N-tricyclo[3.3.1.13,7]dec-1-yl-1H-indazole-3-carboxamide (AKB-48(APINACA));

(G) N-((3s,5s,7s)-adamantan-1-yl)-1-(5-fluoropentyl)-1H-indazole-3-carboxamide (5-Fluoro-AKB-48);

(H) 1-pentyl-8-quinolinyl ester-1H-indole-3-carboxylic acid (PB-22);

(I) 8-quinolinyl ester-1-(5-fluoropentyl)-1H-indole-3-carboxylic acid (5-Fluoro PB-22);

(J) N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-pentyl-1H-indazole- 3-carboxamide (AB-PINACA);

(K) N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl)methyl]- 1H-indazole-3-carboxamide (AB-FUBINACA);

(L) N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-(cyclohexylmethyl)-1H-indazole-3-carboxamide(AB-CHMINACA);

(M) (S)-methyl 2-(1-(5-fluoropentyl)-1H-indazole-3-carboxamido)-3- methylbutanoate (5-fluoro-AMB);

(N) [1-(5-fluoropentyl)-1H-indazol-3-yl](naphthalen-1-yl) methanone (THJ-2201);

(O) (1-(5-fluoropentyl)-1H-benzo[d]imidazol-2-yl)(naphthalen-1-yl)methanone) (FUBIMINA);

(P) (7-methoxy-1-(2-morpholinoethyl)-N-((1S,2S,4R)-1,3,3-trimethylbicyclo [2.2.1]heptan-2-yl)-1H-indole-3-carboxamide (MN-25 or UR-12);

(Q) (S)-N-(1-amino-3-methyl-1-oxobutan-2-yl)-1-(5-fluoropentyl) -1H-indole-3-carboxamide (5-fluoro-ABICA);

(R) N-(1-amino-3-phenyl-1-oxopropan-2-yl)-1-(5-fluoropentyl) -1H-indole-3-carboxamide;

(S) N-(1-amino-3-phenyl-1-oxopropan-2-yl)-1-(5-fluoropentyl) -1H-indazole-3-carboxamide;

(T) methyl 2-(1-(cyclohexylmethyl)-1H-indole-3-carboxamido) -3,3-dimethylbutanoate;

(U) N-(1-amino-3,3-dimethyl-1-oxobutan-2-yl)-1(cyclohexylmethyl)-1 H-indazole-3-carboxamide (MAB-CHMINACA);

(V) N-(1-Amino-3,3-dimethyl-1-oxo-2-butanyl)-1-pentyl-1H-indazole-3-carboxamide (ADB-PINACA);

(W) methyl (1-(4-fluorobenzyl)-1H-indazole-3-carbonyl)-L-valinate (FUB-AMB);

(X) N-[(1S)-2-amino-2-oxo-1-(phenylmethyl)ethyl]-1-(cyclohexylmethyl)-1H-Indazole-3-carboxamide. (APP-CHMINACA);

(Y) quinolin-8-yl 1-(4-fluorobenzyl)-1H-indole-3-carboxylate (FUB-PB-22); and

(Z) methyl N-[1-(cyclohexylmethyl)-1H-indole-3-carbonyl]valinate (MMB-CHMICA).

(ix) Additional substances specifically named:

(A) 1-(5-fluoropentyl)-N-(2-phenylpropan-2-yl)-1 H-pyrrolo[2,3-B]pyridine-3-carboxamide (5F-CUMYL-P7AICA);

(B) 1-(4-cyanobutyl)-N-(2- phenylpropan-2-yl)-1 H-indazole-3-carboxamide (4-CN-Cumyl-Butinaca);

(C) naphthalen-1-yl-1-(5-fluoropentyl)-1-H-indole-3-carboxylate (NM2201; CBL2201);

(D) N-(1-amino-3-methyl-1-oxobutan-2-yl)-1-(5-fluoropentyl)-1 H-indazole-3-carboxamide (5F-ABPINACA);

(E) methyl-2-(1-(cyclohexylmethyl)-1H-indole-3-carboxamido)-3,3-dimethylbutanoate (MDMB CHMICA);

(F) methyl 2-(1-(5-fluoropentyl)-1H-indazole-3-carboxamido)-3,3-dimethylbutanoate (5F-ADB; 5F-MDMB-PINACA); and

(G) N-(1-amino-3,3-dimethyl-1-oxobutan-2-yl)-1-(4-fluorobenzyl) 1H-indazole-3-carboxamide (ADB-FUBINACA).

(i) A controlled substance analog, to the extent that it is implicitly or explicitly intended for human consumption.