



DEPARTMENT OF JUSTICE

Drug Enforcement Administration

[Docket No. DEA-708]

Bulk Manufacturer of Controlled Substances Application: Cayman Chemical Company

AGENCY: Drug Enforcement Administration, Justice.

ACTION: Notice of application.

SUMMARY: Cayman Chemical Company has applied to be registered as a bulk manufacturer of basic class(es) controlled substances. Refer to Supplemental Information listed below for further drug information.

DATES: Registered bulk manufacturers of the affected basic class(es), and applicants therefore, may file written comments on or objections to the issuance of the proposed registration on or before [INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER]. Such persons may also file a written request for a hearing on the application on or before [INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: Written comments should be sent to: Drug Enforcement Administration, Attention: DEA Federal Register Representative/DPW, 8701 Morrisette Drive, Springfield, Virginia 22152. All requests for a hearing must be sent to: Drug Enforcement Administration, Attn: Administrator, 8701 Morrisette Drive, Springfield, Virginia 22152. All requests for a hearing should also be sent to: (1) Drug Enforcement Administration, Attn: Hearing Clerk/OALJ, 8701 Morrisette Drive, Springfield, Virginia 22152; and (2) Drug

Enforcement Administration, Attn: DEA Federal Register Representative/DPW, 8701 Morrisette Drive, Springfield, Virginia 22152.

SUPPLEMENTARY INFORMATION: In accordance with 21 CFR 1301.33(a), this is notice that on July 17, 2020, Cayman Chemical Company, 1180 East Ellsworth Road, Ann Arbor, Michigan 48108-2419, applied to be registered as a bulk manufacturer of the following basic class(es) of controlled substances:

Controlled Substance	Drug Code	Schedule
3-Fluoro-N-methylcathinone (3-FMC); 1-(3-Fluorophenyl)-2-(Methylamino)Propan-1-one)	1233	I
Cathinone	1235	I
Methcathinone	1237	I
4-Fluoro-N-methylcathinone (4-FMC); Flephedrone; 1-(4-Fluorophenyl)-2-(Methylamino)Propan-1-one)	1238	I
Pentedrone (α -methylaminovalerophenone), its optical, positional and geometric isomers, salts and salts of isomers	1246	I
Mephedrone (4-Methyl-N-methylcathinone)	1248	I
4-Methyl-N-ethylcathinone (4-MEC)	1249	I
Naphyrone, its optical, positional and geometric isomers, salts and salts of isomers	1258	I
N-Ethylamphetamine	1475	I
N,N-Dimethylamphetamine	1480	I
Fenethylamine	1503	I
Aminorex	1585	I
4-Methylaminorex (cis isomer)	1590	I
Gamma Hydroxybutyric Acid	2010	I
Methaqualone	2565	I
Mecloqualone	2572	I
JWH-250 (1-Pentyl-3-(2-methoxyphenylacetyl) indole)	6250	I
SR-18 (Also known as RCS-8) (1-Cyclohexylethyl-3-(2- methoxyphenylacetyl) indole)	7008	I
ADB-FUBINACA (n-(1-amino-3,3-dimethyl-1-oxobutan-2-yl)-1-(4- fluorobenzyl)-1H-indazole-3-carboxamide)	7010	I
5-Flouro-UR-144 and XLR11 [1-(5-Fluoro-pentyl)1H-indol-3- yl](2,2,3,3-tetramethylcyclopropyl)methanone	7011	I
AB-FUBINACA (N-(1-amino-3-methyl-1-oxobutan-2-yl)-1-(4- fluorobenzyl)-1H-indazole-3-carboxamide)	7012	I
FUB-144	7014	I

Controlled Substance	Drug Code	Schedule
JWH-019 (1-Hexyl-3-(1-naphthoyl)indole)	7019	I
MDMB-FUBINACA (Methyl 2-(1-4-fluorobenzyl)-1H-indazole-3-carboxamido)-3,3-dimethylbutanoate)	7020	I
2-(1-(4-fluorobenzyl)-1H-indazole-3-carboxamido)-3-methylbutanoate	7021	I
AB-PINACA (N-(1-amino-3-methyl-1-oxobutan-2-yl)-1-pentyl-1H-indazole-3-carboxamide)	7023	I
THJ-2201 [1-(5-fluoropentyl)-1H-indazol-3-yl](naphthalen-1-yl)methanone	7024	I
5F-AB-PINACA	7025	I
AB-CHMINACA (N-(1-amino-3-methyl-1-oxobutan-2-yl)-1-(cyclohexylmethyl)-1H-indazole-3-carboxamide	7031	I
MAB-CHMINACA (N-(1-amino-3,3dimethyl-1-oxobutan-2-yl)-1-(cyclohexylmethyl)-1H-indazole-3-carboxamide)	7032	I
5F-AMB (Methyl 2-(1-(5-fluoropentyl)-1H-indazole-3-carboxamido)-3-methylbutanoate)	7033	I
5F-ADB; 5F-MDMB-PINACA (Methyl 2-(1-(5fluoropentyl)-1H-indazole-3-carboxamido)-3,3dimethylbutanoate)	7034	I
ADB-PINACA (N-(1-amino-3,3-dimethyl-1-oxobutan-2-yl)-1-pentyl-1H-indazole-3-carboxamide)	7035	I
5F-EDMB-PINACA	7036	I
5F-MDMB-PICA)	7041	I
MDMB-CHMICA, MMB-CHMINACA (Methyl 2-(1-(cyclohexylmethyl)-1H-indole-3-carboxamido)-3,3-dimethylbutanoate)-	7042	I
MMB-CHMICA	7044	I
FUB-AKB48;FUB-APINACA; AKB48 N-(4-Fluorobenzyl)	7047	I
APINACA and AKB48 N-(1-Adamantyl)-1-pentyl-1H-indazole-3-carboxamide	7048	I
5F-APINACA, 5F-AKB48 (N-(adamantan-1-yl)-1-(5fluoropentyl)-1H-indazole-3-carboxamide)	7049	I
JWH-081 (1-Pentyl-3-(1-(4-methoxynaphthoyl) indole)	7081	I
5F-CUMYL-PINACA;SGT-25	7083	I
5F-CUMYL-P7AICA	7085	I
4-CN-CUMYL-BUTINACA	7089	I
SR-19 (Also known as RCS-4) (1-Pentyl-3-[(4-methoxy)-benzoyl] indole	7104	I
JWH-018 (also known as AM678) (1-Pentyl-3-(1-naphthoyl)indole)	7118	I
JWH-122 (1-Pentyl-3-(4-methyl-1-naphthoyl) indole)	7122	I

Controlled Substance	Drug Code	Schedule
UR-144 (1-Pentyl-1H-indol-3-yl)(2,2,3,3-tetramethylcyclopropyl)methanone	7144	I
JWH-073 (1-Butyl-3-(1-naphthoyl)indole)	7173	I
JWH-200 (1-[2-(4-Morpholinyl)ethyl]-3-(1-naphthoyl)indole)	7200	I
AM2201 (1-(5-Fluoropentyl)-3-(1-naphthoyl) indole)	7201	I
JWH-203 (1-Pentyl-3-(2-chlorophenylacetyl) indole)	7203	I
NM2201	7221	I
PB-22 (Quinolin-8-yl 1-pentyl-1H-indole-3-carboxylate)	7222	I
5F-PB-22 (Quinolin-8-yl 1-(5-fluoropentyl)-1H-indole-3-carboxylate)	7225	I
4-Methyl-Alpha-Ethylaminopentiophenone	7245	I
N-Ethylhexedrone, its optical, positional and geometric isomers, salts and salts of isomers	7246	I
Alpha-ethyltryptamine	7249	I
Ibogaine	7260	I
CP-47,497 (5-(1,1-Dimethylheptyl)-2-[(1R,3S)-3-hydroxycyclohexyl-phenol)	7297	I
CP-47,497 C8 Homologue (5-(1,1-Dimethyloctyl)-2-[(1R,3S)-3-hydroxycyclohexyl-phenol)	7298	I
Lysergic acid diethylamide	7315	I
2,5-Dimethoxy-4-(n)-propylthiophenethylamine (2C-T-7)	7348	I
Marihuana	7360	I
Tetrahydrocannabinols	7370	I
Mescaline	7381	I
2-(4-Ethylthio-2,5-dimethoxyphenyl) ethanamine (2C-T-2)	7385	I
3,4,5-Trimethoxyamphetamine	7390	I
4-Bromo-2,5-dimethoxyamphetamine	7391	I
4-Bromo-2,5-dimethoxyphenethylamine	7392	I
4-Methyl-2,5-dimethoxyamphetamine	7395	I
2,5-Dimethoxyamphetamine	7396	I
JWH-398 (1-Pentyl-3-(4-chloro-1-naphthoyl) indole)	7398	I
2,5-Dimethoxy-4-ethylamphetamine	7399	I
3,4-Methylenedioxyamphetamine	7400	I
5-Methoxy-3,4-methylenedioxyamphetamine	7401	I
N-Hydroxy-3,4-methylenedioxyamphetamine	7402	I
3,4-Methylenedioxy-N-ethylamphetamine	7404	I
3,4-Methylenedioxymethamphetamine	7405	I
4-Methoxyamphetamine	7411	I
5-Methoxy-N,N-dimethyltryptamine	7431	I

Controlled Substance	Drug Code	Schedule
Alpha-methyltryptamine	7432	I
Bufotenine	7433	I
Diethyltryptamine	7434	I
Dimethyltryptamine	7435	I
Psilocybin	7437	I
Psilocyn	7438	I
5-Methoxy-N,N-diisopropyltryptamine	7439	I
4-CHLORO-ALPHA-Pyrrolidinovalerophenone, its optical, positional and geometric isomers, salts and salts of isomers	7443	I
4-METHYL-ALPHA-Pyrrolidinohexiophenone, its optical, positional and geometric isomers, salts and salts of isomers	7446	I
N-Ethyl-1-phenylcyclohexylamine	7455	I
1-(1-Phenylcyclohexyl)pyrrolidine	7458	I
1-[1-(2-Thienyl)cyclohexyl]piperidine	7470	I
1-[1-(2-Thienyl)cyclohexyl]pyrrolidine	7473	I
N-Benzylpiperazine	7493	I
4-Methyl-Alpha-pyrrolidinopropiophenone, its optical, positional and geometric isomers, salts and salts of isomers	7498	I
2-(2,5-Dimethoxy-4-methylphenyl) ethanamine (2C-D)	7508	I
2-(2,5-Dimethoxy-4-ethylphenyl) ethanamine (2C-E)	7509	I
2-(2,5-Dimethoxyphenyl) ethanamine (2C-H)	7517	I
2-(4-iodo-2,5-dimethoxyphenyl) ethanamine (2C-I)	7518	I
2-(4-Chloro-2,5-dimethoxyphenyl) ethanamine (2C-C)	7519	I
2-(2,5-Dimethoxy-4-nitro-phenyl) ethanamine (2C-N)	7521	I
2-(2,5-Dimethoxy-4-(n)-propylphenyl) ethanamine (2C-P)	7524	I
2-[4-(Isopropylthio)-2,5-dimethoxyphenyl] ethanamine (2C-T-4)	7532	I
MDPV (3,4-Methylenedioxypropylvalerone)	7535	I
2-(4-bromo-2,5-dimethoxyphenyl)-N-(2-methoxybenzyl) ethanamine (25B-NBOMe)	7536	I
2-(4-chloro-2,5-dimethoxyphenyl)-N-(2-methoxybenzyl) ethanamine (25C-NBOMe)	7537	I
2-(4-iodo-2,5-dimethoxyphenyl)-N-(2-methoxybenzyl) ethanamine (25I-NBOMe)	7538	I
Methylone (3,4-Methylenedioxy-N-methylcathinone)	7540	I
Butylone, its optical, positional and geometric isomers, salts and salts of isomers	7541	I
Pentylone, its optical, positional and geometric isomers, salts and salts of isomers	7542	I
N-Ethylpentylone, or Ephylone	7543	I
ALPHA-Pyrrolidinohexanophenone	7544	I

Controlled Substance	Drug Code	Schedule
alpha-pyrrolidinopentiophenone (α -PVP), its optical, positional and geometric isomers, salts and salts of isomers	7545	I
alpha-pyrrolidinobutiophenone (α -PBP), its optical, positional and geometric isomers, salts and salts of isomers	7546	I
Ethylone	7547	I
ALPHA-Pyrrolidinoheptaphenone, its optical, positional and geometric isomers, salts and salts of isomers	7548	I
AM-694 (1-(5-Fluoropentyl)-3-(2-iodobenzoyl) indole)	7694	I
Acetyldihydrocodeine	9051	I
Benzylmorphine	9052	I
Codeine-N-oxide	9053	I
Desomorphine	9055	I
Etorphine (except HCl)	9056	I
Codeine methylbromide	9070	I
Dihydromorphine	9145	I
Heroin	9200	I
Morphine-N-oxide	9307	I
Normorphine	9313	I
U-47700 (3,4-dichloro-N-[2-(dimethylamino)cyclohexyl]-N-methylbenzamide)	9547	I
AH-7921	9551	I
MT-45 (1-cyclohexyl-4-(1,2-diphenylethyl)piperazine))	9560	I
Etonitazene	9624	I
Ketobemidone	9628	I
Tilidine	9750	I
Acryl fentanyl (N-(1-phenethylpiperidin-4-yl)-N-phenylacrylamide)	9811	I
Para-Fluorofentanyl	9812	I
3-Methylfentanyl	9813	I
Alpha-methylfentanyl	9814	I
Acetyl-alpha-methylfentanyl	9815	I
N-(2-fluorophenyl)-N-(1-phenethylpiperidin-4-yl)propionamide	9816	I
Acetyl Fentanyl (N-(1-phenethylpiperidin-4-yl)-N-phenylacetamide)	9821	I
Butyryl Fentanyl	9822	I
Para-fluorobutyryl fentanyl	9823	I
4-Fluoroisobutyryl fentanyl (N-(4-fluorophenyl)-N-(1-phenethylpiperidin-4-yl)isobutyramide)	9824	I
2-methoxy-N-(1-phenethylpiperidin-4-yl)-N-phenylacetamide	9825	I
Para-chloroisobutyryl fentanyl	9826	I

Controlled Substance	Drug Code	Schedule
Isobutyryl fentanyl	9827	I
Beta-hydroxyfentanyl	9830	I
Beta-hydroxy-3-methylfentanyl	9831	I
Alpha-methylthiofentanyl	9832	I
3-Methylthiofentanyl	9833	I
Furanyl fentanyl (N-(1-phenethylpiperidin-4-yl)-N-phenylfuran-2-carboxamide)	9834	I
Thiofentanyl	9835	I
Beta-hydroxythiofentanyl	9836	I
Para-methoxybutyryl fentanyl	9837	I
Ocfentanil	9838	I
Valeryl fentanyl	9840	I
N-(1-phenethylpiperidin-4-yl)-N-phenyltetrahydrofuran-2-carboxamide	9843	I
Cyclopropyl Fentanyl	9845	I
Cyclopentyl fentanyl	9847	I
Fentanyl related-compounds as defined in 21 CFR 1308.11(h)	9850	I
Amphetamine	1100	II
Methamphetamine	1105	II
Lisdexamfetamine	1205	II
Phenmetrazine	1631	II
Methylphenidate	1724	II
Amobarbital	2125	II
Pentobarbital	2270	II
Secobarbital	2315	II
Glutethimide	2550	II
1-Phenylcyclohexylamine	7460	II
Phencyclidine	7471	II
4-Anilino-N-phenethyl-4-piperidine (ANPP)	8333	II
Norfentanyl	8366	II
Phenylacetone	8501	II
1-Piperidinocyclohexanecarbonitrile	8603	II
Cocaine	9041	II
Codeine	9050	II
Etorphine HCl	9059	II
Dihydrocodeine	9120	II
Oxycodone	9143	II
Hydromorphone	9150	II

Controlled Substance	Drug Code	Schedule
Ecgonine	9180	II
Ethylmorphine	9190	II
Hydrocodone	9193	II
Levomethorphan	9210	II
Levorphanol	9220	II
Isomethadone	9226	II
Meperidine	9230	II
Meperidine intermediate-B	9233	II
Methadone	9250	II
Dextropropoxyphene, bulk (non-dosage forms)	9273	II
Morphine	9300	II
Thebaine	9333	II
Oxymorphone	9652	II
Thiafentanil	9729	II
Alfentanil	9737	II
Remifentanil	9739	II
Sufentanil	9740	II
Carfentanil	9743	II
Tapentadol	9780	II
Fentanyl	9801	II

The company plans to bulk manufacture the listed controlled substances to produce forensic and research of analytical reference standards for distribution to its customers. In reference to Marihuana (7360) and Tetrahydrocannabinols (7370) the company will manufacture as synthetics only. No other activities for these drug codes are authorized for this registration.

William T. McDermott,
Assistant Administrator.

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