

methoxy-N,N-diisopropyltryptamine (5-MeO-DIPT) into Schedule I of the Controlled Substances Act (CSA) pursuant to the temporary scheduling provisions of the CSA. This intended action is based on a finding by the DEA Deputy Administrator that the placement of AMT and 5-MeO-DIPT into Schedule I of the CSA is necessary to avoid an imminent hazard to the public safety. Finalization of this action will impose the criminal sanctions and regulatory controls of a Schedule I substance on the manufacture, distribution, and possession of AMT and 5-MeO-DIPT.

FOR FURTHER INFORMATION CONTACT:

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SUPPLEMENTARY INFORMATION:

Background

The Comprehensive Crime Control Act of 1984 (Pub. L. 98-473) amended section 201 of the CSA (21 U.S.C. 811) to give the Attorney General the authority to temporarily place a substance into Schedule I of the CSA for one year without regard to the requirements of 21 U.S.C. 811(b) if he finds that such action is necessary to avoid an imminent hazard to the public safety. The Attorney General may extend the temporary scheduling up to 6 months. A substance may be temporarily scheduled under the emergency provision of the CSA if that substance is not listed in any other schedule under section 202 of the CSA (21 U.S.C. 812) or if there is no exemption or approval in effect under 21 U.S.C. 355 for the substance. The Attorney General has delegated his authority under 21 U.S.C. 811 to the Deputy Administrator of DEA (28 CFR 0.100).

Section 201(h)(4) of the CSA (21 U.S.C. 811(h)(4)) requires the Deputy Administrator to notify the Assistant Secretary for Health, delegate of the Secretary of Health and Human Services, of his intention to temporarily place a substance into Schedule I of the CSA. Comments submitted by the Assistant Secretary for Health in response to this notification, including whether there is an exemption or approval in effect for the substance in question under the Federal Food, Drug and Cosmetic Act, shall be taken into consideration before a final order is published.

In making a finding that places a substance temporarily into Schedule I of the CSA is necessary to avoid an

imminent hazard to the public safety, the Deputy Administrator is required to consider three of the eight factors set forth in section 201(c) of the CSA (21 U.S.C. 811(c)). These factors are as follows: (4) History and current pattern of abuse; (5) The scope, duration and significance of abuse; and (6) What, if any, risk there is to the public health.

Alpha-methyltryptamine and 5-methoxy-N,N-diisopropyltryptamine

Alpha-methyltryptamine (AMT) and 5-methoxy-N,N-diisopropyltryptamine (5-MeO-DIPT) are tryptamine (indoleethylamine) derivatives and share several similarities with the Schedule I tryptamine hallucinogens, alpha-ethyltryptamine (AET) and N,N-dimethyltryptamine (DMT), respectively. Several other tryptamines also produce hallucinogenic/stimulant effects and are controlled as Schedule I substances under the CSA (bufotenine, diethyltryptamine, psilocybin and psilocin). Although tryptamine itself appears to lack consistent hallucinogenic/stimulant effects, substitutions on the indole ring and the ethylamine side-chain of this molecule result in pharmacologically active substances (McKenna and Towers, J. Psychoactive Drugs, 16: 347-358, 1984).

The chemical structures of AMT and 5-MeO-DIPT possess the critical features necessary for hallucinogenic/stimulant activity. Thus, both AMT and 5-MeO-DIPT are likely to have a pharmacological profile substantially similar to other Schedule I tryptamine derivatives such as DMT and AET. In drug discrimination studies, both AMT and 5-MeO-DIPT substitute for 1-(2,5-dimethoxy-4-methylphenyl)-aminopropane (DOM), a phenethylamine-based hallucinogen in Schedule I of the CSA. The potencies of DOM-like discriminative stimulus effects of these and several other similar tryptamine derivatives correlate well with their hallucinogenic potencies in humans (Glennon *et al.*, Eur. J. Pharmacol. 86:453-459, 1983).

AMT shares other pharmacological properties with Schedule I hallucinogens such as AET. AMT increases systolic and diastolic arterial blood pressures. The behavioral effects of orally administered AMT (20 mg) in humans are slow in onset, occurring after 3 to 4 hours and gradually subside after 12 to 24 hours, but may last up to 2 days in some subjects. The majority of the subjects report nervous tension, irritability, restlessness, inability to sleep, blurry vision, mydriasis and equate the effects of a 20 mg dose to those of 50 micrograms of lysergic acid diethylamide (LSD) (Hollister *et al.*, J.

Nervous Ment. Dis., 131: 428-434, 1960; Murphree *et al.*, Clin. Pharmacol. Ther., 2: 722-726, 1961). AMT also produces hallucinations and dextroamphetamine-like mood elevating effects.

5-MeO-DIPT also produces pharmacological effects similar to those of other Schedule I hallucinogens such as DMT. The synthesis and preliminary human psychopharmacology study on 5-MeO-DIPT was first published in 1981 (Shulgin and Carter, Comm. Psychopharmacol. 4: 363-369, 1981). 5-MeO-DIPT is an orally active hallucinogen. Following oral administration of 6-10 mg, 5-MeO-DIPT produces subjective effects with an onset at about 20-30 minutes, a peak at about 1-1.5 hours and a duration of about 3-6 hours. Subjects who have been administered 5-MeO-DIPT are talkative and disinhibited. 5-MeO-DIPT causes mydriasis. High doses of 5-MeO-DIPT produce nausea, jaw clenching, muscle tension and overt hallucinations with both auditory and visual distortions.

History and Current Pattern of Abuse

The popularity and use of hallucinogenic/stimulant substances at raves (all-night dance parties) and other social venues have been a major problem in Europe since the 1990s. In the past several years, this activity has spread to the United States. The Schedule I controlled substance 3,4-methylenedioxymethamphetamine (MDMA or Ecstasy) and its analogues are the most frequently abused drugs at these raves. Their abuse has been associated with both acute and long-term public health and safety problems. Raves have also become venues for the trafficking and abuse of new, non-controlled substances distributed as legal substitutes for, or in addition to, MDMA. 5-MeO-DIPT and AMT belong to such a group of substances.

Data gathered from published studies, supplemented by reports on Internet websites indicate that these are often administered orally at doses ranging from 15-40 mg for AMT and 6-20 mg for 5-MeO-DIPT. Other routes of administration include smoking and snorting. Data from law-enforcement officials indicate that 5-MeO-DIPT is often sold as "Foxy" or "Foxy Methoxy", while AMT has been sold as "Spirals" at least in one case. Both substances have been commonly encountered in tablet and capsule forms.

Scope, Duration and Significance of Abuse

According to forensic laboratory data, the first encounter of AMT and 5-MeO-