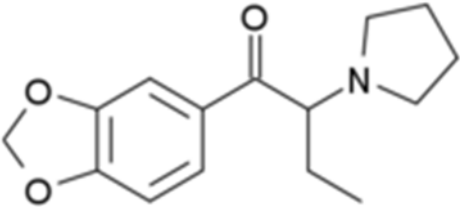


	Substance briefing: MDPBP
	This technical folder provides information on MDPBP . The information provided is based on a number of existing data sources and work undertaken as part of the I-TREND project. Research informing the folder includes an analysis of user discussions on popular (insert country name) drug forums, an analysis of marketing on popular (insert country name: e.g. English speaking) web shops selling the substance, and scientific laboratory analysis of the compound through test purchasing of the substance from (insert country name) web shops.
1	Substance name(s)
1.1	Chemical name: 3,4-methylenedioxy-alfa-pyrrolidinobutyrophenone
1.2	Popular/street/slangname(s): MDPBP was contained in branded product called Funky
1.3	Other name(s): RS)-1-(3,4-methylenedioxyphenyl)-2-(1-pyrrolidinyl)-1-butanone
1.4	Branded products in which the substance was found following analysis:
1.5	Branded products advertised as containing the substance on web shops: Czech web shop analysis did not find any web shop advertised branded products as containing <i>MDPBP</i> substance.
1.6	Branded products discussed as containing the substance on drug forums: Branded product Funky was compared to MDPPP in discussion forums. Content analysis of Funky product discovered mixture of MDPBP and MDPPP.
2.	Classification and effect

2.1	Classification and effect confirmed through substance analysis <ul style="list-style-type: none"> • Cathinones
2.2	Classification and effect referred to by users of drug forums <ul style="list-style-type: none"> • Not classified by users of drug forums.
2.3	Classification and effect used in the marketing of the product on web shops <ul style="list-style-type: none"> • Phenethylamine • Cathinones • Piperazine • Tryptamines • Cannabinoids • Opioids • Aminocyclohexanes • Aminoindanes • Arylalkylamines • Benzodiazepines • Piperidines and pyrrolidines • Other <p>NB: See reference list for sources related to classification (e.g. pharmacological studies, case studies, etc...)</p>
3	Potential risks associated with use of the substance
3.1	<p>General risks associated with the substance:</p> <p>presumed rather high risk of addiction (because of structure resemblance with MDPV); risky combination with inhibitors of MAO; increased risks in people with cardiovascular diseases</p> <p>Unpleasant physical effects:</p> <ul style="list-style-type: none"> • Toxicity data is not yet available • Due to sympathomimetic mechanism MDPBP is in general very demanding on a cardiovascular system. • Combinations with substances that elevate adrenalin/noradrenalin or serotonin (i. e. Combination with monoaminoxidase inhibitors, antidepressants) could be risky/dangerous <p>Unpleasant psychological effects:</p>

	<ul style="list-style-type: none"> • Risk of hallucinations at higher doses • Risk of dependence <p>Assumed risks due to similarity to other substances:</p> <ul style="list-style-type: none"> • Similarity to MDPV can be assumed, therefore unpleasant effects can involve: stimulation, hyperventilation, tachycardia, euphoria, low appetite, dehydration, paranoia, after effect (fatigue) and hallucination (dependant on a dose) • Thirst and massive sweating due to similarity with MDPV can be presumed • Dependence potential relatively high (considering similarity to MDPV) 								
3.2	<p>Users point of view on the substance and risk perception</p> <p>MDPBP was not directly discussed on Czech forums, product Funky was described as very potent at small doses with high risk of psychosis and overall mental and physical discomfort during and after use. The substance was very potent at low doses with long term effect, overdosing with paranoia could happen easily. The quality of product and onset of effects is also very different from retailer to retailer. The dependence potential is considered as very high.</p>								
4	Legal status and identification of the substance								
4.1	Legal status/acts/laws in Czech Republic: MDPBP is not controlled								
4.2	<p>List of first identification and reporting to the EMCDDA by a national Reitox Focal Points</p> <table border="1"> <thead> <tr> <th>Country</th> <th>Dates</th> </tr> </thead> <tbody> <tr> <td>Czech Republic in 2012</td> <td>1,25 g seizure</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>	Country	Dates	Czech Republic in 2012	1,25 g seizure				
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Czech Republic in 2012	1,25 g seizure								
5	Photographs of the substance								
5.1	Photograph of the substance purchased for laboratory analysis:								
5.2	Photo/Printscreen of the product from the webshop:								
6	Chemistry								
6.1	<p>Chemical Abstracts Service (CAS) registry number:</p> <p>24622-60-4</p>								

6.2	Chemical information: MDPBP is a synthetic cathinone closely related to MDPPP (its propanone homologue) and MDPV (its pentanone homologue), with allegedly stimulant properties.																														
6.2	Structure (picture of structural formula) 																														
6.3	Molecular mass 261,316 g/mol																														
6.4	Structural comparison with a related substance synthetic cathinon, very close to MDPP and MDPV																														
6.5	(Insert pictures of developed formula of this original substance)																														
7	Analytical composition: results of substance analysis carried out from the sample purchased online.																														
7.1	Details of laboratory analysis technique used: Mean (%) = (sd.= .) (N sample analysed) <table border="1"> <thead> <tr> <th>Webshop</th> <th>Country (IP address)</th> <th>Country (package origin)</th> <th>Form</th> <th>Substance named on package/webshop</th> <th>Confirmed substances</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td>benzofury</td> <td>6 APB</td> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td>Mephedrone</td> <td>Mephedrone</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Webshop	Country (IP address)	Country (package origin)	Form	Substance named on package/webshop	Confirmed substances	1				benzofury	6 APB	1				Mephedrone	Mephedrone	2						2					
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7.3	Substance marketing details <table border="1"> <tr> <td>Powder</td> <td>Euros</td> </tr> </table>	Powder	Euros																												
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	minimum price per gram	-	
	maximum price per gram	-	
	mode price per gram	-	
	mean price per gram	-	
8	Price and marketing strategies on (insert country name) web shops selling the substance		
8.1			
8.2	Description of availability and marketing strategies on Czech web shops selling the substance: The <i>MDPBP</i> was not find (28.5.2015) in any web shop. ¹		
8.3	Type of Czech websites selling the product		
		No of shops (28.5.2015)	
	RC shops	0	
	Commercial shops	0	
	Other	0	
8.4	Number of webshops available for Czech republic with supposed country of origin in the EU selling the products		
		No of web shops	
	CZ address or phone number on web sites	0	
	Web shops with CZ IP code	0	

¹ The total number of web shops selling new synthetic drugs for CZ (16.3.2015) was 33. (For detail information about methodology of monitoring and selecting the web shops see methodology on <http://www.i-trend.eu/>).

For the marketing analysis we chose 15% of the most popular web shops from CZ list of shops. The shops without prices for products and shops which provide just bulk/wholesale order were removed from our selection. In addition another 6 web shops, previously chosen for the purchase of substances, were added to the marketing analysis. The final number of web shops used for analysis was 11. For latter analysis, we use only shops where product was available.

	Web shops with supposed country of origin in the EU ²	0
9	Law enforcement and health data	
9.1	Number of law enforcement seizures in Czech Republic in 2013/2014: In 2013 there was seizure of 1/1,15 g in Czech Republic and no seizure in 2014 at all.	
9.2	EMCDDA health alerts in Czech Republic: There was EMCDDA health alert in Czech republic on June 2011.	
9.2	Confirmed deaths and acute cases reported in Czech Republic: There was in Czech Republic 1 confirmed acute case in 2012 and 1 in 2014	
10	<u>User experiences of the substance: results from an analysis of discussions Czech Drug Forums</u> Based on analysis of product Funky! Methodological comment: The information below is based on an analysis of 1 drug forum, 22 forum posts and 14 forum users.	
10.1	Dosage specified by drug forum users (n = number of quotations) <ul style="list-style-type: none"> • <i>Initial Dosing: Initial dose of 50mgs was described by a user that used this substance for the first time, the dose provided quite strong effects to a surprise of the user(n= 1)</i> • <i>Boosting: There was no discussion on boosting dose (n= 0). It seems that this substance is used usually just once per occasion, no boosting or bingeing pattern was identified.</i> • <i>Threshold: There was no discussion on threshold dose (n= 0)</i> • <i>Light: 50 mgs were also described by other users as reasonable dose for minimum of unpleasant effects. (n=2)</i> • <i>Common: 100-200mgs was described mostly as a common dose, causing long lasting effects with unpleasant after effects(n= 4)</i> • <i>Strong: One user reports using of a whole bag (advertised as</i> 	

² Including web shops with CZ address or phone number on web sites

	200mgs) and confirms as very unpleasant, overdosed feeling for a whole time of the use (n= 1)
10.2	<p>Duration</p> <ul style="list-style-type: none"> • <i>Onset: Onset time after 5 minutes from snorting of the substance (n =1)</i> • <i>Coming up: Coming up changes from product to product, some users describe one hour of pleasant effects and then immediately come-down comes. Other users describe 3-4 hours of pleasant effects. (n =0)</i> • <i>Plateau: There was no discussion on plateau (n =0)</i> • <i>Coming down: There was no discussion on coming downtime but apparently after the effects wear off a long state with very unpleasant after effects occur. (n =0)</i> • <i>After effects: After effects were considered as very unpleasant and long lasting, also long in contrast with the duration of pleasant effects. After effects lasted up to 35 hours and included insomnia, paranoia, unpleasant feelings, shaking, nervousness, lack of concentration, depression, bad mood, physical exhaustion, feeling like being “cut-off from the brain” (n =8).</i> • <i>Hangover/Day after : Day after described as state with high physical exhaustion (n =1)</i>
10.3	<p>Effects reported by forum users (n = 15)</p> <p><i>Physical effects</i></p> <ul style="list-style-type: none"> ○ <i>Stimulation</i> ○ <i>After: Fatigue, cold feeling, shivering and blue lips and headache</i> <p><i>Psychological effects</i></p> <ul style="list-style-type: none"> ○ <i>Talkativeness</i> ○ <i>Good mood</i> ○ <i>High energy</i> ○ <i>Low euphoria</i> ○ <i>After effects of changing moods (depression/mania), anxiety</i> ○ <i>Paranoia</i> ○ <i>Depressions</i> ○ <i>Insomnia</i> ○ <i>High dependence potential</i> <p><i>Sought/expected</i></p> <ul style="list-style-type: none"> ○ <i>Stimulation, energy, use for parties</i> <p><i>Desired</i></p> <ul style="list-style-type: none"> ○ <i>Good stimulation, talkativeness</i> <p><i>Undesired</i></p>

	<ul style="list-style-type: none"> ○ <i>Insomnia</i> ○ <i>Unpleasant and long after effects, paranoia and mental discomfort</i>
10.4	<p>Tolerance</p> <p><i>Tolerance was not discussed in Czech drug forums. No increases in doses after time were reported.</i></p>
10.5	<p>Route of administration (n =3)</p> <ul style="list-style-type: none"> ● <i>Ingestion: This ROA of MDPBP was not mentioned in Czech drug forums (n =0)</i> ● <i>Snorting: Three users describe snorting of substance. The smell of the substance can cause nausea (n =3)</i> ● <i>Rectal: This ROA of MDPBP was not mentioned in Czech drug forums (n =0)</i> ● <i>Inhalation or insufflation: This ROA of MDPBP was not mentioned in Czech drug forums (n =0)</i>
10.6	<p>Others substances referred to in discussion about MDPBP:</p> <ul style="list-style-type: none"> ● <i>Referred to in comparing the effects: MDPBP effects compared to methamphetamine to describe the amount of stimulation and lower level of euphoria. Also the duration and after effects were often compared to methamphetamine (n=2)</i> ● <i>Effects of MDPBP compared to MDPV and MDPPP (n=1)</i> ● <i>Referred to as increasing the effects: Not mentioned on Czech drug forums (n =0)</i> ● <i>Referred to in managing come down: Valerian herb recommended to manage the unpleasant comedown(n=1)</i> ● <i>Other substance discussed in the same episode/combo: Used with a product EX, that improved the effects and made the use more pleasant (n=1) Benzodiazepines or barbiturates are recommended to manage after effects (n=1)</i> ● <i>Referred to as an agonist/ antagonist : Not mentioned on Czech drug forums (n =0)</i>
10.7	<p>Appearance and preparation (n =2)</p> <p><i>Yellow-brown-orange powder with very strong chemical “chlorine-like” smell (n=2)</i></p>
10.8	<p>Patterns of use/Frequency of use</p> <ul style="list-style-type: none"> ● <i>Reports did not give evidence about frequency of use, binge-use was not observed.</i>

10.9	<p>Context of consumption</p> <ul style="list-style-type: none"> • <i>used alone at home(n=3)</i> • <i>Used at a party (n=2)</i>
10.10	<p>User's views and experiences on the online market</p> <p><i>Forum members mostly discuss reliability of shops and quality of the Funky product. Users did not like the unstable quality of the product and that effects changed from retailer to retailer but also from one batch to another. Speculations that the product contains strychnine were discussed as well. It would be one of the explanations for these very unpleasant aftereffects.</i></p>
10.11	<p>Harm reduction Message</p> <p>Users warn about unpleasant after effects, from possible overdosing (strong unpleasant effects occur at 100-200 mgs). Users recommend smaller doses around 50 mgs. Users warn also about unstable quality. Possible contamination of the product with strychnine was discussed and warnings were released.</p> <p>Possible toxic effects on body and especially kidneys were also discussed.</p>
10.12	<p>User profile</p> <p><i>Forum users discussing MDPBP and enjoying its effects were fans of “long term” acting stimulants like methamphetamine. Some users were worried about the potency and strength of the substance and its content.</i></p>
11	<p>Useful resources and literature</p> <ul style="list-style-type: none"> ▪ http://cs.wikipedia.org/ ▪ http://en.wikipedia.org/ ▪ http://www.emcdda.europa.eu/ ▪ NSD zaostreno200404_syntdrogy_web.pdf ▪ http://www.drogy-info.cz/