Health Canada
Santé Canada

STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance: Monobenzyl phthalate

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled	☐
Not Controlled	X

under the schedules of the *Controlled Drugs and Substances Act* (CDSA) for the following reason(s):

- The substance is not similar in structure to any of those included in the schedules to the CDSA.

Prepared by: _____ Date: _____
Evelyn C Soo

Verified by: _____ Date: _____
Mark Kozlowski

Approved by: _____ Date: _____
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Elizabeth Dussault, OCS

Drug Status Report

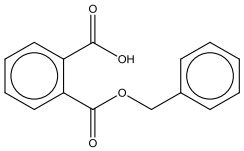
Drug: Monobenzyl phthalate

Drug Name Status: Monobenzyl phthalate is the common name.

Chemical Name: 1,2-Benzenedicarboxylic acid, 1-(phenylmethyl) ester

Other Names: Benzyl hydrogen phthlate; Mono(phenylmethyl) 1,2-benzenedicarboxylate; 1,2-Benzenedicarboxylic acid, mono(phenylmethyl) ester; MBzP

Chemical structure:



Molecular Formula: $C_{15}H_{12}O_4$ **CAS-RN:** 2528-16-7

Pharmacological class / Application: Fine chemical

International status:

US: Monobenzyl phthalate is not listed specifically in the Schedules to the US *Controlled Substances Act* and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances under International Control.

Canadian Status: Monobenzyl phthalate is not listed in the schedules to the CDSA. The substance has been reported in the scientific literature to be a major metabolite of butyl benzyl phthalate (BBP) [1] which belongs to the family of phthalates and used in the manufacture of a wide range of consumer products including vinyl materials, plastics and cosmetics[2]. Monobenzyl phthalate does not display structural similarity to any of the substances listed in the CDSA.

Recommendation: Monobenzyl phthalate is not included in the schedules to the CDSA and is not a controlled substance.

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[1] Saillenfait, AM. et al. (2003) Comparative embryotoxicities of butyl benzyl phthalate, mono-n-butyl phthalate and mono-benzyl phthalate in mice and rats: in vivo and in vitro observations, Reproductive Toxicol. **17**:575-583.
[2] http://www.chemicalsubstanceschimiques.gc.ca/fact-fait/phthalates-eng.php

Date: April 13th, 2012.