

# New Source (Site of Manufacture) by Current Registrant and Specifications and Manufacturing Process Evaluation Report for Category B, Subcategories B1.1 and B1.3 Application

<b>Application Number:</b>	2005-0910
Application:	New source (site of manufacture) by current registrant (B1.1) and
	Specifications and manufacturing process (B1.3)
Product:	Betasan Technical
<b>Registration Number:</b>	20206
Active ingredients (a.i.):	Bensulide [BET]
<b>PMRA Document Number</b>	: 1427734

# Background

Betasan Technical has been registered since May 5, 1987. This product is used in the reformulation of pesticides. It contains the TGAI bensulide at 93.5%. Bensulide is an organophosphate pesticide. Bensulide is a selective pre-emergence herbicide, effective in the control of grassy weeds of the family Graminaceae. The only food use of bensulide registered in Canada is in the production of cucumbers (flat planted or bedded). It is also used on turf.

#### **Purpose of Application**

The purpose of this application was to amend the registration of Betasan Technical in order to register a new site of manufacture.

#### **Chemistry Assessment**

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Common Name:	Bensulide
IUPAC Chemical Name:	O,O-diisopropyl S-2-phenylsulphonylaminoethyl dithiophosphate
CAS Chemical Name:	O,O-bis(1-methylethyl)-S-[2-[(phenylsulphonyl)amino]ethyl]
	phosphorodithioate

Property	Result
Colour and physical state	amber liquid or solid
Nominal concentration	93.5%
Odour	camphor-like
Specific gravity	1.224 at 25°C
Vapour pressure	1 x 10 <sup>-6</sup> mm Hg at 25°C
pH	N/A
Solubility in water	25 mg/L at 20°C
n-Octanol/water partition coefficient	Log Kow = 4.2

Betasan Technical has the following properties:

The chemistry requirements for Betasan Technical are complete.



#### **Health Assessments**

A toxicology assessment was not required under this application.

The food residue risk profile of Betasan Technical is expected to be similar to that of the original registered Betasan Technical as chemistry concluded that both TGAIs were chemically equivalents. Accordingly, no increase in dietary exposure is anticipated.

# **Environmental Assessment**

An environmental assessment was not required under this application.

# Value Assessment

A value assessment was not required under this application.

# Conclusion

Following the review of all available data, the new bensilude TGAI is considered equivalent to the original registered bensulide TGAI and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

#### References

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1140788	2004, Betasan (bensulide) Technical: Description of Beginning Materials and Manufacturing Process and Discussion of Formation of Impurities., CO411, DACO: 2.11.2,2.11.3,2.11.4
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1140790	2004, Preliminary Analysis of Technical Bensulide., 272S06, DACO: 2.13.1,2.13.2,2.13.3,2.13.4
1140791	2005, Waiver-A Reference to Colour Data Submitted for Betasan Technical, Reg. No. 20206., DACO: 2.14.1
1140792	2005, Waiver-A Reference to Physical State Data Submitted for Betasan Technical, Reg. No. 20206., DACO: 2.14.2
1140793	2005, Waiver-A Reference to Odour Data Submitted for Betasan Technical, Reg. No. 20206., DACO: 2.14.3
1140794	2005, Waiver-A Reference to Odour Data Submitted for Betasan Technical, Reg. No. 20206., DACO: 2.14.4
1140795	2005, Waiver-A Reference to Boiling Point/Boiling Range Data Submitted for Betasan Technical, Reg. No. 20206., DACO: 2.14.5
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1140797	2005, Waiver-A Reference to Water Solubility Data Submitted for Betasan Technical, Reg. No. 20206., DACO: 2.14.7
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1140802	2005, Waiver-A Reference to UV/Visible Absorption Data Submitted for Betasan Technical, Reg. No. 20206., DACO: 2.14.12
1140803	2005, Waiver-A Reference to Stability (Metals, Temperature) Data Submitted for Betasan Technical, Reg. No. 20206., DACO: 2.14.13
1140804	2005, Waiver-A Reference to Storage Stability Data Submitted for Betasan Technical, Reg. No. 20206., DACO: 2.14.14
1140805	2005, Sample (s) of Analytical Standards and Residue of Concern., DACO: 2.15

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