

Format for submitting pursuant to Article 8 of the Stockholm Convention the information specified in Annex E of the Convention

Introductory information	
Name of the submitting Party/observer	World Wild Fund for Nature (WWF)
Contact details (name, telephone, e-mail) of the submitting Party/observer	Lin Li, Senior Programme Officer Global Toxics Programme Tel: +1 202 778 9627 Fax: +1 202 530 0743 Lin.li@wwfus.org
Chemical name (as used by the POPS Review Committee (POPRC))	Hexabromobiphenyl
Date of submission	January 26, 2006

(a) Sources, including as appropriate (provide summary information and relevant references)	
(i) Production data:	
Quantity	
Location	
Other	
(ii) Uses	
(iii) Releases:	
Discharges	
Losses	
Emissions	
Other	

(b) Hazard assessment for endpoints of concern, including consideration of toxicological interactions involving multiple chemicals (provide summary information and relevant references)	
<ul style="list-style-type: none"> • A rainbow trout early life stage mortality bioassay study has shown that 3,3',4,4',5,5'-HexaBB is 10-fold more potent than identically substituted PCB to fish early life stage survival (Hornung et al. 1996); <p>PBB</p> <ul style="list-style-type: none"> • Pre- and postnatal exposures to polybrominated biphenyls is associated to earlier ages of menarche in girls. Perinatal PBB exposure was also associated with earlier pubic hair stage in breastfed girls exposed to PBB through breastfeeding (Blank et al 2000) 	

(c) Environmental fate (provide summary information and relevant references)	
Chemical/physical properties	
Persistence	
How are chemical/physical properties and persistence linked to environmental transport, transfer within and between environmental compartments, degradation and transformation to other chemicals?	
Bio-concentration or bio-accumulation factor, based on measured values (unless monitoring data are judged to meet this need)	<p>For PBB</p> <ul style="list-style-type: none"> • A Cohort study followed the accidental contamination of the food chain in Michigan in 1973 showed that the median half-life was 12.9 years in women with an initial PBB level < 10 ppb; 28.7 years in those with > 10 ppb. Decay was significantly slower among women with an initial BMI at or above the median (BMI ≥ 23) (Blank et al 2000)

(d) Monitoring data (provide summary information and relevant references)

(e) Exposure in local areas (provide summary information and relevant references)	
- general	
- as a result of long-range environmental transport	
- information regarding bio-availability	

(f) National and international risk evaluations, assessments or profiles and labelling information and hazard classifications, as available (provide summary information and relevant references)

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(g) Status of the chemical under international conventions

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References:

Blanck, H.M., Marcus, M., Tolbert, P.E., Rubin, C., Henderson, A.K., Hertzberg, V.S., Zhang, R.H., and Cameron, L. (2000) Age at Menarche and Tanner Stage in Girls Exposed In Utero and Postnatally to Polybrominated Biphenyl. *Epidemiology*. 11(6):641-647, November 2000, available at

<http://www.epidem.com/pt/re/epidemiology/abstract.00001648-200011000-00005.htm;jsessionid=DyrZyiNU7qhEm2ZBeKAIKH2jJKoi7j8OejOkfKg12O2Ymydgjv8!-1432726313!-949856145!9001!-1>

Blanck, H.M., Marcus, M., Hertzberg, V., Tolbert, P.E., Rubin, C., Henderson, A.K. and Zhang, R.H. (2000) Determinants of Polybrominated Biphenyl Serum Decay among Women in the Michigan PBB Cohort. *Environmental Health Perspectives* Volume 108, Number 2, February 2000: 147-152, available at

<http://ehp.niehs.nih.gov/members/2000/108p147-152blanck/108p147.pdf>

Hornung M.W., Zabel E.W., Peterson R.E. (1996) Toxic Equivalency Factors of Polybrominated Dibenzo- p -dioxin, Dibenzofuran, Biphenyl, and Polyhalogenated Diphenyl Ether Congeners Based on Rainbow Trout Early Life Stage Mortality. *Toxicology and Applied Pharmacology*, Volume 140, Number 2, October 1996, pp. 227-234(8), available at <http://www.ingentaconnect.com/content/ap/to/1996/00000140/00000002/art00217>.