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[TOP](#) > [Available Volumes](#) > [Table of Contents](#) > Abstract

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Research and Development of Biodegradation Disposal for SBS (Sugi Bark Sorbent)

[Masaki Saito](#), [Suguru Ogura](#), [Hiroyuki Kimoto](#), [Yoshihiko Yamada](#), [Katashi Nagamizu](#) and [Hisato Fukushi](#)

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Summary: Sugi bark sorbent (SBS), which is recycled waste, is comparable to commonly used petroleum products in performance and cost and has lower environmental loads. It has been commercially produced since 2001. For the purpose of reducing total environmental loads in the oil recovery, we investigated biodegradation disposal of SBS after use (after adsorbing oil), instead of incineration disposal. It was confirmed that the oil content was reduced from $14,300 \pm 1,600$ ppm to $1,500 \pm 500$ ppm after 164 days-period (36m^3 site), and reduced from $8,600 \pm 900$ ppm to $1,400 \pm 400$ ppm after 170 days-period (100m^3 site) in a biodegradation experiment using Bunker C in the bark compost (background : 430 ± 140 ppm).

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