

Guide to eco-friendly soap-based fire extinguishing agents

世界屈指の環境性能を有する石けん系消火剤のご紹介



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Shabondama Soap Co., Ltd.

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Reference PV URL <https://youtu.be/izf-7iDEKgU>

(Patented product in 8 countries around the world)

(世界8か国特許取得商品)

Introduction of Shabondama Soap Co., Ltd.

シャボン玉石けん(株)のご紹介



Head office: Wakamatsu-ku, Kitakyushu city, Fukuoka Prefecture

Establishment: 1910

Sales: 8,9 billion yen

Capital: 100million yen

Employee: 153 staffs

(Average age: 34, Male : Female ratio 4 : 6)

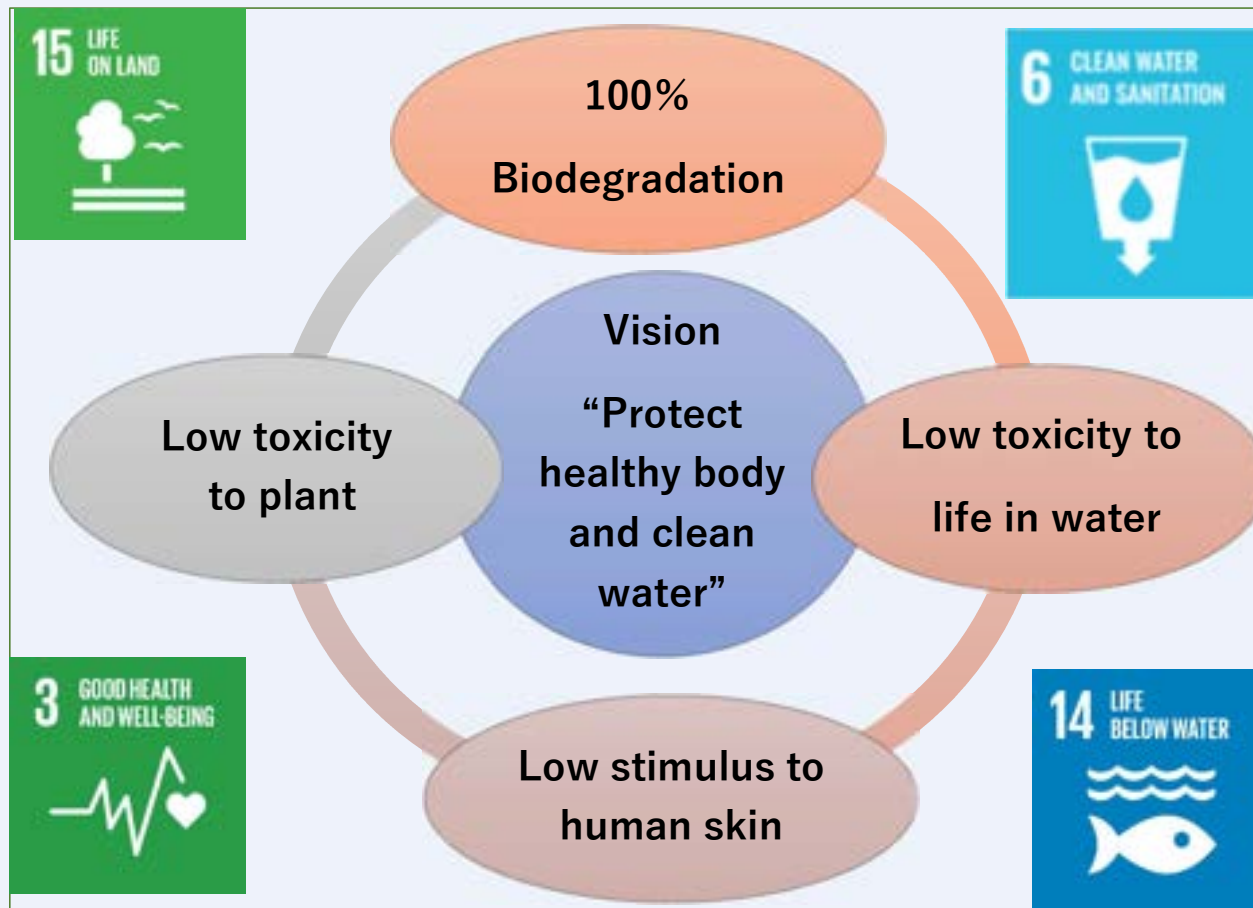
Main products

主な商品



Characteristics of Shabondama's naturally derived additive-free pure soap

無添加石けんの特徴



Recommended by Japan Atopic Dermatitis Patients Association

History of soap-based fire extinguishing agent development

石けん系消火剤開発の経緯



7 years of research and development

7年間にわたる研究開発



Characteristics of soap-based fire extinguishing agent

石けん系消火剤の特徴

High firefighting effect

高い消火効果

Wettability, Penetrability

Fast defoaming

泡切れの良さ

Bubbles disappear immediately

Eco-friendly

環境への優しさ

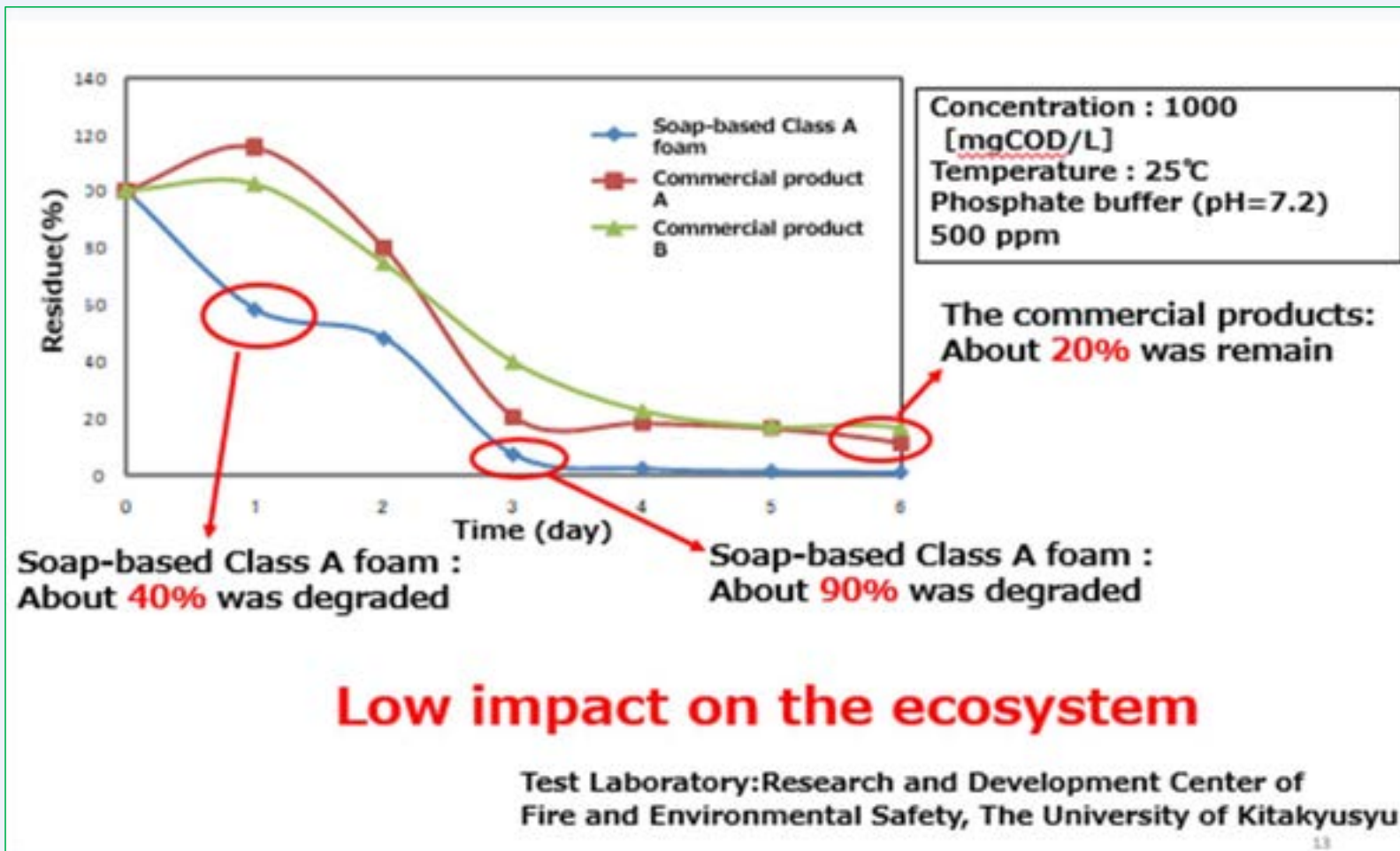
Low toxicity, 100% Biodegradation



Soap-based ClassA Foam is specifically for fresh water and the concentration for use is 1%. 7



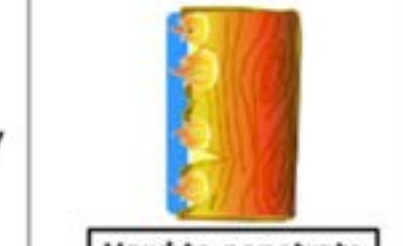
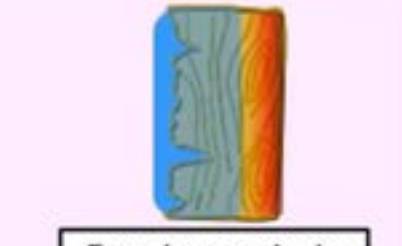
Good foam removal and good biodegradability

泡切れの良さと生分解性



Mechanism of high fire extinguishing effect

高い消化効果のメカニズム


	Water	Firefighting agent
Wettability	 Hard to get wet	 Easy to get wet
Penetrability	 Hard to penetrate	 Easy to penetrate




Environmental friendliness

環境へのやさしさ

Model biotope test



The diagram illustrates the model biotope test process. It starts with a green rectangular container with dimensions 900 mm by 900 mm and a height of 345 mm. The process is shown in three stages: 'Before' (a tray with yellow insects), 'Spraying' (a person spraying the tray with a white substance), and '7 months later' (the tray placed outdoors in a natural setting).



The results of the test are shown in three trays labeled 'Soap', 'Synthetic', and 'Water'. The 'Soap' and 'Water' trays show a high density of dark insects, while the 'Synthetic' tray shows a significantly lower density, indicating that the synthetic environment is less favorable for the insects.

Usage of extinguishing agent

石けん系消火剤の使用例

• Aerial distribution

空中散布



Usage of extinguishing agent

石けん系消火剤の使用例

Fire pump (simple foaming release)

ポンプを使った放射



Usage of extinguishing agent

石けん系消火剤の使用例

A fire extinguishing method using a simple suction device
such as a line proportioner

簡易な吸い上げ器具を使用した放射



Usage of extinguishing agent

石けん系消火剤の使用例

Manual distribution (water backpack)

手動散布（背負い式水のう）



Establish environmentally conscious forest firefighting tactics

地域に合った環境配慮型林野火災消火戦術の確立

Peat fires in Indonesia are posing serious problems with their vast amounts of CO₂ and smoke.

Verification test results from previous experiments are already being reviewed in an effort to create practical measures to combat this problem.

SHABONDAMA's soap-based fire extinguishing agents are also expected to be a game changer for global warming in Europe.

Please try out this product and see its performance and total cost reduction benefits. We're confident that this will help you establish environmentally conscious strategies to fight wildfires.

References

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Thank you for your attention.

