

A cream made with sulfur that is beneficial for medical uses

Purpose

The goal of our project is to increase sustainability by using sulfur byproducts from the petroleum extraction process. We aim to effectively treat common skin care problems with sulfur, which has proven medicinal uses.

Opportunity

In the U.S., 42% of the population use skin care products [2]. If the population of Qatar uses skin care products at the same rate, our target market is 1.108 million people.

References

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Medical Uses

In the medical field, sulfur has been used to treat patients who have acne, seborrheic dermatitis, rosacea, eczema and dandruff. Also, according to the University of Maryland Medical Center, sulfur is used in helping treat warts, skin discoloration, hair-follicle infections and shingles [4]. In addition, sulfur helps to clear away dead skin cells that can contribute to clogged pores, breakouts, uneven texture, and dullness [5].



[3]

Process

Sulfur is obtained as a byproduct of extracting crude oil.

Sulfur is treated with superheated water in retorts, forming dimethyl sulfoxide or DMSO [4].

Sulfur is then treated with carbon at high temperatures forming carbon sulfides [6].

Then the carbon sulfide (liquid) is added to the cosmetic product with the required quantity the product needs to be effective.