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HAND CLEANING COMPOSITION

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The use and, more particularly, the repairing of mechanical apparatus such as, for example, engines or other parts of a motor car mostly often constitute a dirty work which entails the necessity for the user or the repairer to clean his hands immediately. Now, it often happens that it is impossible for the latter to have at their disposal the water and the wiping cloths which are normally necessary for this purpose.

The object of the present invention is to provide a detersive product which can be used without water and without the necessity for the user to resort to a wiping of the parts of his body which have been cleaned by means of said product.

This product is chiefly constituted by a solution, in a volatile solvent such as, for instance, benzene, toluene, trichlorethylene or the like which do not attack the skin or in a mixture of such solvents, of a polymerized synthetic resin, for example vinylic resin, acrylic resin such as methyl methylacrylate or any similar resin, to which solution a liquid plastifier of a type known per se such as, for example, butyl phthalate is added.

The proportions by weight of the bodies used for the preparation of the product according to the invention are preferably comprised between 3 and 10% for the synthetic resin and 12 to 18% for the plastifier, the solvent being added in a sufficient quantity for completing to 100 parts.

A viscous product is thus obtained a few drops of which are spread onto the part to be cleaned, for example on the hands. These latter are then rubbed on each other as when using a conventional detergent emulsified with water. The solvent contained in the product dissolves the fatty materials and the like which soil the skin. In the measure as the operation proceeds the said solvent evaporates, the product becomes thicker and thicker and owing to the presence of the plastifier small soft and dry curds or globules form in and with which the materials which have been separated from the skin are collected and incorporated. These globules do not adhere to the skin and can be separated easily by simple rubbing.

By way of example a product manufactured according to the invention has been prepared by using as synthetic resin ground waste of polymerized methyl methylacrylate. The grinding of the waste is not indispensable and it had also been possible to use them as such, the dissolving operation being in this case only a little longer. The proportions used were as follows:

	Per cent
Polymerized methyl methylacrylate	5
Butyl phthalate	15
Solvent (benzene, toluene or trichlorethylene)	80

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The use of toluene as solvent yields a product which is less viscous than that which is obtained with trichlorethylene. A mixture of both these compounds may be used with advantage as a solvent, the viscosity being adjusted to the desired value through an addition of trichlorethylene in proportions which will be the higher the more viscous the product which it is desired to obtain. Moreover, such an addition of trichlorethylene confers to the product the advantageous property of being non-inflammable.

The product obtained according to the invention may be, at will, coloured and perfumed according to the necessities of the market by means of products known per se.

What I claim is:

1. A detergent for cleaning the skin of the type which when rubbed on the skin takes the form of globules being capable to incorporate the dirt and separate from the skin by rubbing, consisting of a mixture of substantially by weight 3 to 10% of methyl methacrylate resin, 12 to 18% of butyl phthalate, and the balance being solvent selected from the group consisting of benzene, toluene, and trichlorethylene.

2. A detergent as set forth in claim 1 in which the solvent is a mixture of toluene and trichlorethylene.

3. A detergent as set forth in claim 1 in which the solvent is toluene.

4. A detergent as set forth in claim 1 in which the solvent is trichlorethylene.

5. A detergent as set forth in claim 1 in which the resin is present in an amount of 5% and the butyl phthalate is present in an amount of 15%.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,784,005	Hermann et al.	Dec. 9, 1930
1,204,517	Strain	June 11, 1940
2,379,236	Jenkins	June 26, 1945
2,406,558	Neumann	Aug. 27, 1946

FOREIGN PATENTS

Number	Country	Date
432,022	Great Britain	July 15, 1935

OTHER REFERENCES

Industrial Solvents, Mellan (1939), pages 179–182.