

# LYNE, MARTIN & RADFORD

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## CERTIFICATE OF ANALYSIS of 6 samples of Dermashield

I hereby certify that examination of the above mentioned sample gave the following results:

Six samples of Dermashield were received for examination for compliance with The Cosmetic Products (Safety) Regulations 1989 and testing for general safety for use of the product as a barrier hand cream (particularly with reference for use in the food industry).

The product was analysed for toxic metals and a microbiological examination was also carried out, to determine its suitability to be used in food preparation situations.

It was stated that the label had already been checked by the trading standards.

The formulation of the product was supplied by Benchmark. The ingredients listed were as follows:- Water, Isobutane, Dimethicone, Glycerine, Isopropyl Myristate Stearic Acid, Cetearyl Alcohol, Ceteareth-20, Aloe Vera Gel, Tocopheryl Acetate, Cetyl Alcohol, Lanolin, Triethanolamine, Propylene Glycol, Diazolidinyl Urea, \*Methyl Paraben, \*Propyl Paraben.

The propellant was stated to be a mixture of propane and butane.

The concentrate content of the can was found to be approximately 50% by weight.

All the ingredients as listed in the provided formulation, are satisfactory in accordance with The Cosmetic Products (Safety) Regulations, 1989.

Diazolidinyl urea is not listed as a restricted preservative in Schedule 4 (List of Preservatives Which Cosmetic Products Which Must Not Contain Except Subject To Restrictions) of The Cosmetic Products (Safety) Regulations, 1989. However, in literature obtained from the manufacturer, it appears to have been given provisional approval for use in the EEC and appropriate testing is being carried out. A copy is enclosed for your information.

The ingredients marked with an asterisk have limits given in Schedule 4 (List of Preservatives Which Cosmetics Products Must Not Contain Except Subject to Restrictions) of The Cosmetic Products (Safety) Regulations 1989. The limit for methyl and propyl paraben is 0.4% by weight for one component and a maximum of 0.8% by weight for a mixture.

The sample concentrate was analysed for the toxic metals arsenic, mercury, selenium, chromium, antimony, lead and cadmium. The results of the analyses are given below.

Arsenic	less than 1mg/kg
Mercury	less than 1mg/kg
Selenium	less than 1mg/kg
Chromium	less than 1mg/kg
Antimony	less than 1mg/kg
Lead	less than 1mg/kg
Cadmium	less than 1mg/kg
Barium	less than 1mg/kg

The levels found are satisfactory, indicating the raw materials used do not contain high levels of toxic metals.

Microbiological examination of the product was also carried out. The results are given below.

Total Viable Count (per g)	less than 10
Yeast (per g)	less than 20
Mould (per g)	less than 20

The product was found to be microbiologically satisfactory.

### Conclusions

The product formulation complies with The Cosmetic Products (Safety) Regulations, 1989.

The product may be considered safe for use as a barrier cream, with reference to the toxic metal level and microbiological results.

*Carol R. Baynes*  
PUBLIC ANALYST