



PROPOSAL from WAKO
How about adopting Highly-Purified products to satisfy Universal Qualifying Standards for Your Analysis?

Highly-Purified Dimethylfumarate (DMF) for New EU Regulation (2009/251/EC) is available!

As of 1 May 2009 products containing a biocide Dimethylfumarate are prohibited from being placed or made available on the European communities market.

Since 2007, sofas exported to the UK from China which contained dimethylfumarate (DMF), a biocide preventing moulds that may deteriorate leather furniture or footwear during storage or transport in a humid climate have caused dermatitis in consumers who have been in contact with these sofas.

Number of victims: several thousand (in the UK, France, Poland, Finland, Sweden, etc.)

DMF was most often contained in little pouches fixed inside the furniture or added to the footwear boxes. It thus evaporated and impregnated the product, protecting it from moulds. However, it then also affected consumers who were in contact with the products. DMF penetrated through the clothes onto consumers' skin where it caused painful skin contact dermatitis, including itching, irritation redness, and burns; in some cases, acute respiratory troubles are reported. The dermatitis was particularly difficult to treat. The presence of DMF is thus a serious risk.

Method's Quantification Limit (MQL): 0.1 mg/kg of the weight of the product or part of the product

Specification	
Appearance	White, Crystals ~ crystalline powder
Solubility in acetone	to pass test
Melting Point	101 ~ 105
Assay (cGC)	99.0+%

Description	Wako Catalog No.	Pkg. Size
Dimethyl Fumarate Standard , 99.0+% (cGC) for Household Articles Test [IUPAC Name] Dimethyl (E)-butenedioate [CAS No.] 624-49-7; [Einecs No.] 210-849-0 [Molecular Weight] 144.13 [Molecular Formula] CH ₃ OCOCH:CHCOOCH ₃	041-31061	100 mg

Reference: The EU regulation

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:074:0032:0034:EN:PDF>

Wako Pure Chemical Industries, Ltd.
<http://www.wako-chem.co.jp>
Osaka 540-8605, Japan
Tel: 81-6-6203-3741/ Fax: 81-6-6201-5964
Online Catalog: <http://www.e-reagent.com>

Wako Chemicals USA, Inc.
<http://www.wakousa.com>
Toll-Free (U.S. only): 1-877-714-1920
Head Office (Richmond, VA 23237):
Tel: 1-804-714-1920/ Fax: 1-804-271-7791
Los Angeles Sales Office (Irvine, CA 92618):
Tel: 1-949-679-1700/ Fax: 1-949-679-1701
Boston Sale Office (Cambridge, MA 02142):
Tel: 1-617-354-6773/ Fax: 1-617-354-6774

Wako Chemicals GmbH
<http://www.wako-chemicals.de>
Neuss D-41468, Germany
Tel: 49-2131-311-0/ Fax: 49-2131-311100