



**International  
Standard**

**ISO  
25712**

**IUC 443**

**Chemicals for the leather tanning  
industry — Determination of the  
total content of melamine**

*Produits chimiques pour l'industrie du tannage du cuir —  
Détermination de la teneur totale en mélamine*

**First edition  
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ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

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## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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IULTCS, originally formed in 1897, is a world-wide organization of professional leather societies to further the advancement of leather science and technology. IULTCS has three Commissions, which are responsible for establishing international methods for the sampling and testing of leather. ISO recognizes IULTCS as an international standardizing body for the preparation of test methods for leather.

This document was prepared by the Chemical Test Commission of the International Union of Leather Technologists and Chemists Societies (IUC Commission, IULTCS), in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 289, *Leather*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

This document includes a procedure for analysing melamine in leather tanning chemicals using liquid chromatography (LC) equipment.

In the leather industry, melamine can be present as a residual monomer in resins based on the polymerisation of melamine, where melamine-formaldehyde resin is the more typical. This type of resin is present in chemical products such as melamine-formaldehyde resin or compound products and is used in the retanning stage of the tanning process.

At present, the official European Chemicals Agency (ECHA) classification recognized in the European Union (EU) for melamine is the following:

- substance of very high concern (SVHC) and included in the candidate list for authorisation<sup>[1]</sup>;
- suspected to be Carcinogenic<sup>[2]</sup>;
- under assessment as Persistent, Bioaccumulative and Toxic<sup>[2]</sup>;
- under assessment as Endocrine Disrupting<sup>[2]</sup>.

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