



Management Service

# CERTIFICATE

The Certification Body  
 of TÜV SÜD Management Service GmbH

certifies that



**Str. Uzinei Nr. 1  
 240050 Râmnicu Vâlcea  
 Romania**

has established and applies  
 a Quality and Environmental Management System  
 for the following scope of application:

**Research, design, production and delivery  
 of in-organic, organic and  
 macromolecular chemical products;  
 Production and delivery of PVC profiles, windows and doors;  
 Distribution and delivery of electrical energy and delivery of natural gas.**

Performance of audits (Report No. 70002392)  
 has furnished proof that the requirements under:

**ISO 9001:2015  
 ISO 14001:2015**

are fulfilled.

The certificate is valid from **2017-09-10** until **2020-09-09**.

Certificate Registration No.: **12 100/104 8304 TMS.**

  
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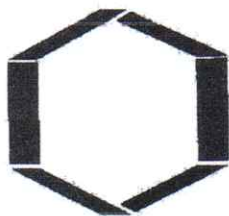
Product Compliance Management  
 Munich, 2017-08-14











# OLTCHIM S.A.

✓ ÎN REORGANIZARE JUDICIARA  
✓ IN JUDICIAL REORGANISATION  
✓ EN REDRESSEMENT

Strada Uzinei nr. 1, 240050 Râmnicu Vâlcea - ROMÂNIA  
Tel: +40-(0)250/701200; Fax: +40-(0)250-735030; 736188;  
e-mail: oltchim@oltchim.ro

## CERTIFICATE OF ANALYSIS No. 311

**Product name: PROPYLENE GLYCOL**

Appendix to Shipping Document No. 0063268

Consignee : TO ORDER

Address : GREECE

Gross weight, kg. : 38 820

Net weight, kg. : 22 350

Forwarded with truck/tank/waggon No. :EKE 4875 / P 49182

Analysis report No. : P42/182

Date :24.08.2018

Lot No : -

Validity : 12 months

CHARACTERISTICS	U.M.	RESULTS	SPEC. LIMITS	TESTING METHOD
Appearance		clear, viscous liqui	clear, viscous liquid	visual
Propylene glycol	%	99.66	min 99,5	ILL003/3-01-17
Distillation range(95 %vo )	°C	185.8- 188.2	185-189	ASTM D 1078
Water content (K-Fischer)	%	0.10	max. 0,25	ASTM E 203
Acidity (CH <sub>3</sub> COOH)	%	0.0015	max. 0,005	ASTM D 1613
Ash	%	0.0006	max. 0,01	ILL003/3-01-18
Hazen colour	hazen degree	10	max. 10	SR ISO 2211
Density at 20°C	g / cm <sup>3</sup>	1.037		

QUALITY CONTROL DEPARTMENT,  
LABORATORY

Name and surname: IONESCU IUSTINA

Cod : F 002 - 003, ed. A, rev. 1

This document has been generated electronically and therefore has no hand written signature.

24.08.2018 09:55:59 PM