

20, AVENUE APPIA - CH-1211 GENEVA 27 - SWITZERLAND - TEL CENTRAL +41 22 791 2111 - FAX CENTRAL +41 22 791 3111 - WWW.WHO.INT

Ref. RPQ/REG/ISF/Alert N°1/2023 UPDATE to Alert No. 1/2023 (19 May 2023)

11 January 2023

Medical Product Alert N°1/2023

Substandard (contaminated) liquid dosage medicines identified in WHO European Region and Western Pacific Region

Alert Summary

This WHO Medical Product Alert refers to two substandard (contaminated) products, identified in Uzbekistan and reported to WHO on 22 December 2022, and identified in Cambodia, and reported to WHO on 3 April 2023. Substandard medical products are products that fail to meet quality standards or specifications and are therefore "out of specification"¹.

The two products are **AMBRONOL syrup** and **DOK-1 Max syrup**. The stated manufacturer of both products is MARION BIOTECH PVT. LTD, (Uttar Pradesh, India). To date, the stated manufacturer has not provided guarantees to WHO on the safety and quality of these products.

Laboratory analysis of samples of both products, found unacceptable amounts of diethylene glycol and /or ethylene glycol as contaminants.

Both of these products may have marketing authorizations in other countries in the region. They may also have been distributed, through informal markets, to other countries or regions. Please see the Annex for further product information.

WHO has previously published two Alerts on other contaminated liquid dosage medicines. Please see <u>Medical Product Alert N°6/2022</u> and <u>Medical Product Alert N°7/2022</u>.

Risks

Diethylene glycol and ethylene glycol are toxic to humans when consumed and can prove fatal. The substandard products referenced in this Alert are unsafe and their use, especially in children, may result in serious injury or death. Toxic effects can include abdominal pain, vomiting, diarrhoea, inability to pass urine, headache, altered mental state and acute kidney injury which may lead to death.

Advice to regulatory authorities, manufacturers and the public

It is important to detect and remove these substandard products from circulation to prevent harm to patients.

WHO requests increased surveillance and diligence within the supply chains of countries and regions likely to be affected by these products. Increased surveillance of the informal/unregulated market is also advised. National regulatory authorities/health authorities are advised to immediately notify WHO if these substandard products are discovered in their respective country.

Manufacturers of liquid dosage forms, especially syrups that contain excipients including propylene glycol, polyethylene glycol, sorbitol, and/or glycerin/glycerol, are urged to test for the presence of contaminants such as ethylene glycol and diethylene glycol before use in medicines.

All medical products must be approved and obtained from authorized/licensed suppliers. The products' authenticity and physical condition should be carefully checked. Seek advice from a healthcare professional when in doubt.

If you have these substandard products, **please DO NOT use them**. If you, or someone you know, have used them or suffered any adverse reaction/event after use, you are advised to seek immediate medical advice from a qualified healthcare professional and report the incident to the National Regulatory

 $^{^1 \, {\}rm WHO} \ definitions: https://www.who.int/teams/regulation-prequalification/incidents-and-SF/background/definitions$



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Authority or National Pharmacovigilance Centre. If you have any information concerning the manufacture or supply of these products, please contact WHO via **rapidalert@who.int.**

Please see Annex for details of the substandard products referenced in Alert N°1/2023. This Alert (including photographs) will be updated if further relevant information becomes available.

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Annex - Ref. RPQ/REG/ISF/Alert N°1/2023:Products contaminated with diethylene glycol and/or ethylene glycol

AMBRONOL cough syrup STATED MANUFACTURER: MARION BIOTECH PVT. LTD, (Uttar Pradesh, India) STATED ACTIVE INGREDIENTS: ambroxol HCL PACKAGING LANGUAGE: English

BAICH	EXP
AAS2203	Mar-25

AMBRONOL cough syrup STATED MANUFACTURER: MARION BIOTECH PVT. LTD, (Uttar Pradesh, India) STATED ACTIVE INGREDIENTS: ambroxol HCL PACKAGING LANGUAGE: Russian		
BATCH	EXP	
AAS2103	Aug-24	
AAS2202	Dec-24	
AAS2201	Dec-24	
AAS2204	Mar-25	

DOK-1 MAX syrup

STATED MANUFACTURER: MARION BIOTECH PVT. LTD, (Uttar Pradesh, India) STATED ACTIVE INGREDIENTS: Paracetamol BP, Guaifenesin BP, Phenylephrine Hydrochloride BP

PACKAGING LANGUAGE: Russian

ВАТСН	EXP
DXS2104	Apr-24
P/DXS- H/2101	Jul-24
DXS2105	Aug-24
DXS2106	Aug-24
DXS2107	Aug-24
DXS2108	Aug-24
DXS2109	Aug-24
DXS2201	Dec-24
DXS2202	Dec-24
DXS2203	Dec-24
DXS2205	Jul-25
DXS2206	Jul-25
DXS2207	Jul-25
DXS2208	Jul-25
DXS2209	Jul-25
DXSH2201	Jul-25
DXSH2202	not reported

For more information, please visit our website. Email: rapidalert@who.int

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