



Zdravotní ústav se sídlem v Ostravě
Partyzánské náměstí 2633/7
Moravská Ostrava, 702 00 Ostrava
Centrum hygienických laboratoří

Reference no.: ZU/11207/2021
File no.: S-ZU/11207/2021
File character: 2.0.4.

PUMPA, a.s.
U Svitavy 1
618 00 Brno

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Date: 07/06/2021

RESULTING EVALUATION OF OBJECT COMING INTO DIRECT CONTACT WITH POTABLE WATER

In accordance with Section 5 of Act No. 258/2000 Coll., on public health protection, as amended, you have requested a health assessment of the product: **PUMPA suspension equipment for pumps**, manufacturer **PUMPA, a.s., U Svitavy 1, 618 00 Brno-Černovice**.

The PUMPA suspension device in question is used to install submersible pumps in boreholes and wells and is used for permanent contact with potable water.

It is composed of the following materials:

- Velcro – polyamide (nylon), polyester
- Thread – polyamide
- Strap – polypropylene
- Cord – polypropylene
- Label PUMPA – EX FR

Submitted documentation:

- Sample application with product name, manufacturer and material composition dated: 12/05/2021.
- Material sheet and technical sheet for components – Velcro, thread, strap, cord, logo label.
- Test report No. 472111279/1 from an accredited laboratory issued on 08/08/2018 by the Institute for Testing and Certification, a.s. Zlín for a specimen of the fabric of the laminated fabric, strap and sewing yarn for use in contact with food.
- Specimen for extraction tests.

The specimen was subjected to extraction tests pursuant to Ministry of Health, Decree No. 409/2005 Coll. as amended, on hygiene requirements for products coming into direct contact with water and for water treatment, Annex No. 1.

The evaluation of the extraction tests stems from the Article 3 Decree of the Ministry of Health No. 409/2005 Coll. as amended, on hygiene requirements for products coming into direct contact with water and for water treatment, which stipulates that a product intended to come into contact with water must meet the limits of extraction tests carried out under the conditions and according to the procedures set out in Annex No. 1 to the Decree mentioned above. The proportion of water contamination caused by a product in direct contact with water that is intended for permanent contact with potable water determined by the extraction test must not exceed 10% of the hygiene limit for the potable water indicator observed,



as stipulated in Decree of the Ministry of Health No. 252/2004 Coll., with the exception of TOC indicator (max. 20% of the limit) and COD_{Mn} (max. 30% of the limit). For the purposes of the indicators not listed in Decree of the Ministry of Health No. 252/2004 Coll., the hygiene limits for potable water are laid down in Article 3(6) of the Decree of the Ministry of Health No. 409/2005 Coll.

Extraction test results:

The specimen was subjected to extraction tests pursuant to Ministry of Health Decree No. 409/2005 Coll., Annex No. 1. In the presented specimen, the material was tested in direct contact with water; physical, chemical, and organoleptic parameters were determined in dependence on the characteristics, material composition and purpose of use.

The results are presented in Protocol no. 24544/2021 issued on 07/ 06/ 2021, by the Institute of Health based in Ostrava, Brno, Gorkého 6, which forms an integral part hereof. The results of the laboratory analyses show the following:

1. The resulting mean concentrations of $K^{23}_{72,3}$ PAA, cadmium, chromium, nickel, lead, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, ideno(1,2,3-cd)pyrene, colour, phenols, $COD(Mn)$ and TOC are below the respective limits of determination of the methods used.
2. The calculated modified concentration of the migrated component $C^{23}_{72,3}$ of turbidity is below the respective limits of determination of the methods used.
3. The pH values meet the requirements of Decree No. 252/2004 Coll., as amended.
4. The resulting value of the taste threshold number (TFN) and threshold odour number (TON) meet the permitted value laid down in Decree No. 252/2004 Coll., as amended. The organoleptic properties are not affected by the test specimen.

Based on the evaluation of the extraction test results stemming from the requirements of the Decree, it can be concluded that the product: **PUMPA suspension equipment for pumps**, manufacturer **PUMPA, a.s., U Svitavy 1, 618 00 Brno-Černovice**.

meets

the requirements for products intended for direct and permanent contact with potable water according to Decree of the Ministry of Health No. 409/2005 Coll., as amended, on hygiene requirements for products coming into direct contact with potable water and for water treatment.

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Gorkého 6, 602 00 Brno

Ing. Dagmar Pecáková

Deputy Head of the Department of Inorganic Analyzes

Note: Please note that our statement only applies to the specimen submitted, **PUMPA suspension equipment for pumps**, manufacturer **PUMPA, a.s., U Svitavy 1, 618 00 Brno-Černovice**, and the conclusions drawn from this testing can only be applied to other products of the same type if their composition and properties fully correspond to the specimen tested by us.

Annexes: Accredited Protocol No. 24544/2021 issued by the Public Health Institute in Ostrava, workplace in Brno, Gorkého 6, dated 07/06/2021.

Distribution list: 1x addressee, 1x Public Health Institute Ostrava.