PHILIPS

Philips Respironics provides update on completed set of test results for first-generation DreamStation sleep therapy devices

December 21, 2022

We know that patients depend on Philips Respironics devices for their health and well-being. We deeply regret that for many patients, the voluntary field safety notice to address potential health risks related to the polyes-ter-based polyurethane (PE-PUR) sound abatement foam in specific CPAP, BiPAP and mechanical ventilator devices has created uncertainty and concern. Patient safety is our top priority – and it is important that patients feel confident using our devices.

That's why since announcing the field safety notice we've embarked on a comprehensive test and research

program, and have provided updates along the way in December 2021 and June 2022.

We now have a complete set of results for the first-generation DreamStation* devices based on the extensive testing and analysis that we have done over the past 18 months – working with five independent certified laboratories, as well as third party experts and physicians.

- Philips Respironics has provided the data and analyses to the FDA and other competent authorities. The FDA is still considering the data and analyses that Philips Respironics has provided and may reach different conclusions.
- Healthcare providers, patients, and other stakeholders should use the complete update, including information on the limitations of the testing, for any informed decision making and should not solely rely on the overview presented here.
- Philips Respironics' guidance for healthcare providers and patients remains unchanged.
- Philips Respironics will continue with the remediation program.

The complete update on the PE-PUR testing results and their conclusions available to date can be found <u>here</u>. The the overall findings for the first-generation DreamStation devices have been summarised below.

Results for first-generation DreamStation devices not exposed to ozone-cleaning:

 The new results indicate that exposure to particulate matter (PM) emissions from degraded foam in first-generation DreamStation devices, including potential respirable and non-respirable particulates, is unlikely to result in an appreciable harm to health in patients. New and used devices (including devices having visible foam degradation) were tested and all were compliant with allowable limits for PM emissions. Also, the third-party chemical evaluation and toxicological risk assessment of degraded foam have now been completed. The assessment found that for the first-generation DreamStation devices, exposure to foam particulates from these devices is unlikely to result in an appreciable harm to health in patients.

- 2. The results further indicate that the exposure to volatile organic compound emissions (VOCs) is not anticipated to result in long-term health consequences for patients. Expanded testing and toxicological risk assessments on multiple devices with new, used, and lab aged foam have shown no appreciable harm to health for the VOCs detected. Therefore, exposure to the level of VOCs identified to date for the first-generation DreamStation devices is not anticipated to result in long-term health consequences for patients based on ISO 18562-3** testing and evaluation of new, lab aged, and used devices. This is consistent with the results presented in <u>December 2021</u>.
- **3.** Prevalence of visible foam degradation in inspected returned devices was found to be low. Based on the visual inspection of the foam in returned first-generation DreamStation devices, the prevalence of visible foam degradation was found to be low.
 - 164 out of 36,341 (0.5%) returned devices from the US and Canada were inspected and showed significant visible foam degradation. These devices were self-reported as not using ozone cleaning.
 - Only 1 out of 2,469 (0.04%) inspected devices returned from multiple countries in Europe showed significant visible foam degradation. This included devices from the Netherlands, the UK, Italy, and Spain, ranged in age up to around 6 years.
 - None of the 1,964 (0%) inspected returned devices from Japan showed significant visible degradation. This is consistent with the results presented in <u>June 2022</u>.

Visual inspection can only identify visible foam degradation and cannot measure volatile organic compounds generation or quantify particulate loss, therefore additional testing and analyses were performed as described above and in the complete update.

Results to date for first-generation DreamStation devices exposed to ozone-cleaning:

- Data available to date for first-generation DreamStation devices indicate that ozone cleaning exacerbates foam degradation: returned devices from the US and Canada with user-reported ozone cleaning are 14 times more likely to have significant visible foam degradation (7% of the inspected devices) compared to devices with no user-reported ozone exposure (0.5% of the inspected devices). This observation is consistent with laboratory testing, where first-generation DreamStation devices exposed to increasing cycles of ozone cleaning had increasingly more severe visual degradation.
- 2. Testing and analyses regarding risks associated with respirable and non-respirable particulates have been performed to date on devices with known ozone exposure. That third-party collective analysis concluded that exposure to particulate from degraded foam with self-reported ozone use in first-generation DreamStation devices is unlikely to result in an appreciable harm to health in patients.
- 3. The VOC toxicological risk of this ozone-induced foam degradation is still being assessed.

What this means for you

We know you depend on these devices for health and well-being, and we know how important it is that you

feel confident using our devices.

We will continue with our remediation program to provide replacement devices that do not contain the PE-PUR sound abatement foam. We are committed to delivering the highest levels of quality, and we want to let you know that we remain committed to providing patients with replacement devices, either a new or repaired device, with the latest foam.

As always, we advise patients to consult their physician or health care provider should they intend to make any changes to their therapy.

What this means for other affected devices

Testing for DreamStation Go and SystemOne devices, which contain the exact same PE-PUR foam as the first-generation DreamStation devices, continues and we will provide patients with a further update as soon as we have it. Testing continues for mechanical ventilators.

Toxicological assessments to assess the impact of repeated ozone cleaning on foam degradation are also continuing. As a reminder, ozone and UV light cleaning products are not currently approved cleaning methods for sleep apnea devices or masks and should not be used.

You can find more information on the voluntary recall/field safety notification at philips.com/src-update.

*First generation DreamStation devices include DreamStation CPAP/Auto CPAP/BiPAP, DreamStation BiPAP ASV, DreamStation BiPAP AVAPS/ST, E30 Ventilator **ISO 18562-3:2017: Biocompatibility evaluation of breathing gas pathways in healthcare applications – Part 3: Tests for emissions of volatile organic compounds.



©2022 Koninklijke Philips N.V. All rights reserved.