National Workshop on

Integrated Healthcare Waste Management (IHCWM) and Water Sanitation & Hygiene (WASH) in Healthcare Facilities



Disposal of Menstrual Waste: Time to Act

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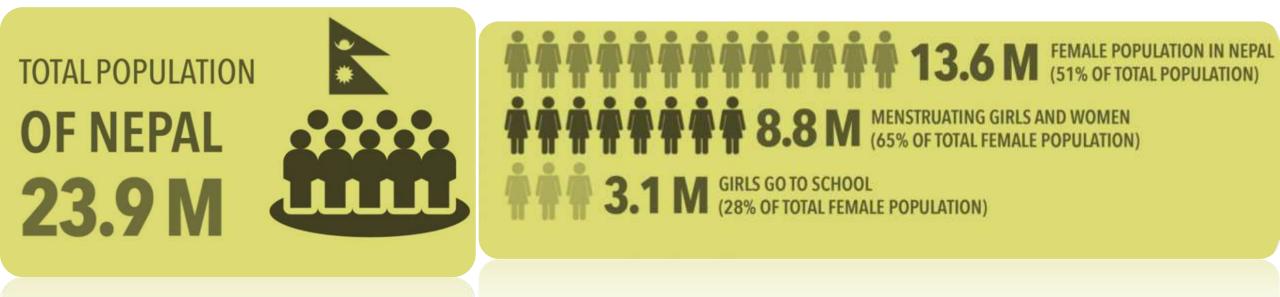












CENTRAL BUREAU STATISTIC (2014), POPULATION MONOGRAPH OF NEPAL, VOLUME II (SOCIAL DEMOGRAPHY). FIRST EDITION ISBN: 978-9937-2-8972-6







Sanitary Waste Load Calculation



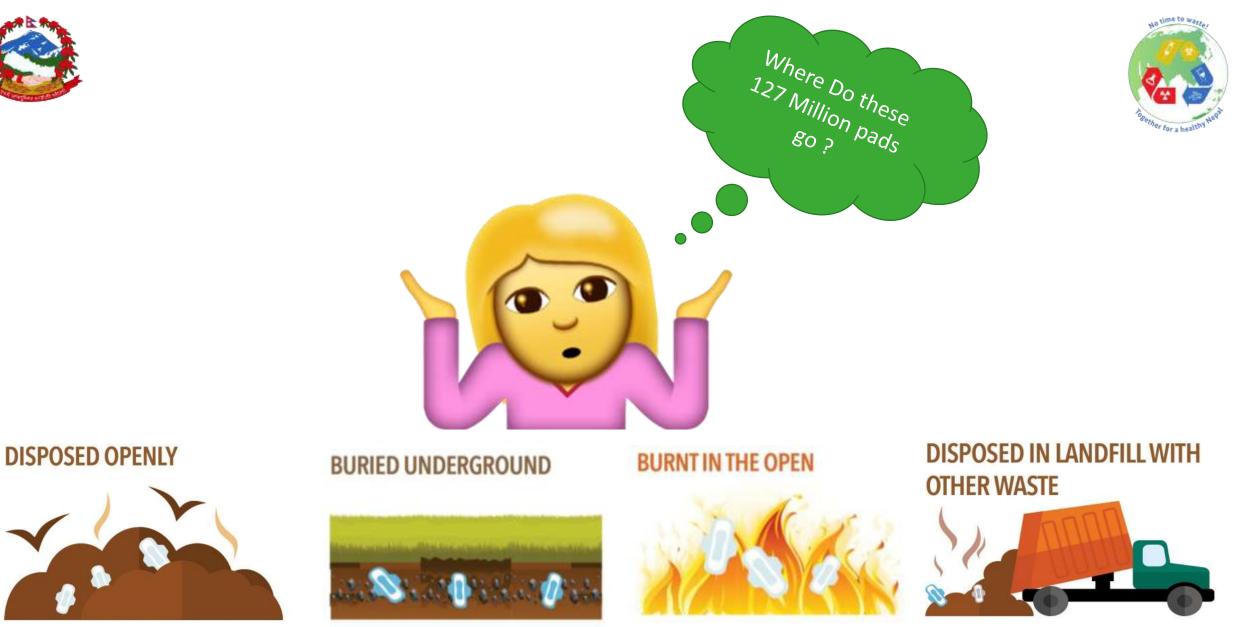




RESEARCH ON L.Y. SCOPING REVIEW AND PRELIMINARY MAPPING MENSTRUAL HEALTH AND HYGIENE MANAGEMENT IN NEPAL (PP. 1-96)









12/11/2019



Feminine Hygiene Products Available

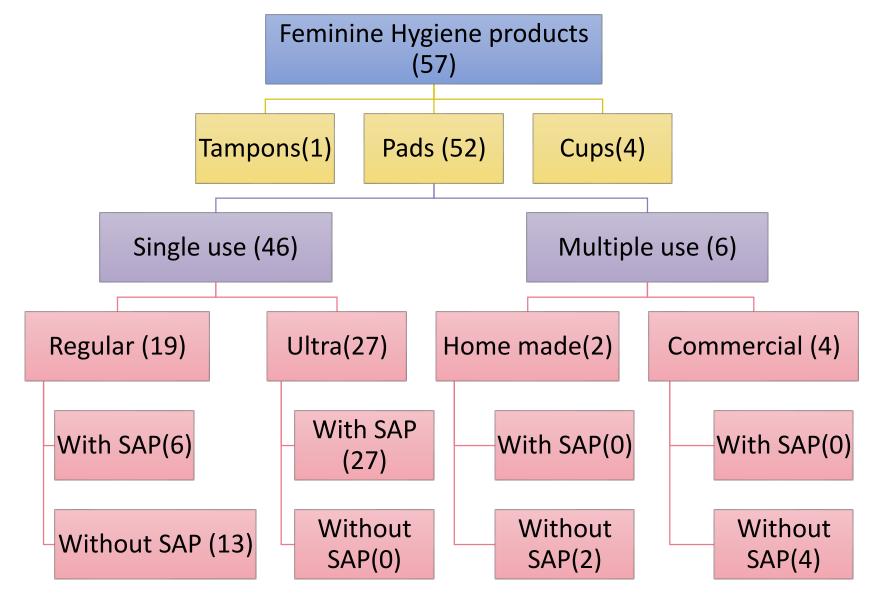






Menstrual Products Available in Nepal









Current Disposal Practice

















Final Disposal: Our Current Practice

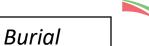






Open Dumping











How Diapers and Menstrual Pads Are Exposing Babies and Women to Hormone-Disrupting, Toxic Chemicals



January 28, 2019

Environmental Health News

by Brian Bienkowski

Health advocates say the report is the latest example of products falling through regulatory cracks and an inadequate societal focus on women's reproductive health.

Most diapers and sanitary pads contain volatile organic compounds and phthalates and with this continued, long-term exposure a significant amount of these harmful chemicals could be absorbed via the genitals, according to a new study.

The study was spurred by an investigation from South Korean media outlets in 2017 that found new sanitary pads might be causing menstrual problems and irregularities and was broadened to the U.S. and other countries. More than 15,000 women complained and signed onto a class action lawsuit claiming harm from menstrual pads by the company



Health Issues

Lillian. The pads were removed from the market. Women alleged rashes, infections, irregular periods and bad cramping.

Scientists and advocates say the exposure uncovers a gap in our regulation of baby's diapers and is emblematic of our society's historical unease with having productive conversations about women's reproductive health.

"The physical location of the exposure site, the high absorption rate of the genitalia for chemicals, and the long-term exposure period demand a thorough investigation on the potential impact of the exposure to VOCs and phthalates," the authors wrote in the study, which will be published in <u>Reproductive</u> <u>Toxicology</u>.

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Chemicals in Sanitary Pads

The chemicals used in sanitary pads, tampons and diapers raised concerns throughout the world -- particularly near the turn of the 21st century -- due to questions about the safety of certain chemicals used in their manufacture, as well as the environmental issues of disposing of them. Because of potential risk factors, some women have opted for organic sanitary pads as an alternative and others have decided to use reusable sanitary pads.



Dioxin

A bill introduced in Congress in March 1999 -- The Tampon Safety and Research Act of 1999 noted

"dioxin is a by product of chlorine - bleaching processes used in the manufacture of paper products including tampons, sanitary pads, panty liners and diapers" further pointed out that the effects of dioxin are cumulative and that the chemical may stay in the body for 20 years after exposure.

Other Chemicals

A close relative of dioxin, furan is also found in bleached paper products, including sanitary pads, diapers and tampons. Research published in the Textile Research Journal in 2007 extracted the chemical found in sanitary pads tampons throughout the world. While results varied among products, octachlorinated dioxin (OCDD), hexachlorodibenzofuran (HxCDF) and octachlorodibenzofuran (OCDF) were detected. These are all banned toxic substances.







Menstrual Hygiene Products and Waste Management Solutions









9.1. Incinerators. If incinerators are used according to ecofriendly guidelines they create less pollution. They should be operated at certain specific temperature around 800°C so that they emit less harmful gasses. They should be installed in schools, institutions, and slum areas and at community level

9.3. Reusable Cloth Pads. Using these reusable cloth pads is a better option as they have less chemical and plastic

9.4. Biodegradable Products. Commercial sanitary product manufacturing companies must manufacture products having lesser chemical and plastic content. Pads made from bamboo fibre, banana fibre, water hyacinth, and sea sponges should be encouraged.

9.6. Better Disposal Techniques. Special covered bins should be installed to handle menstrual waste. Disposal bags should be provided by manufacturing companies with color indication for disposing these products. These bags should be freely distributed among schools and institutions. Menstrual waste should not be disposed of along with domestic waste. Pads should be properly wrapped in newspaper and then thrown in the dustbins. By this it should also be safe for rag pickers as it does not expose them to any disease-causing pathogens.

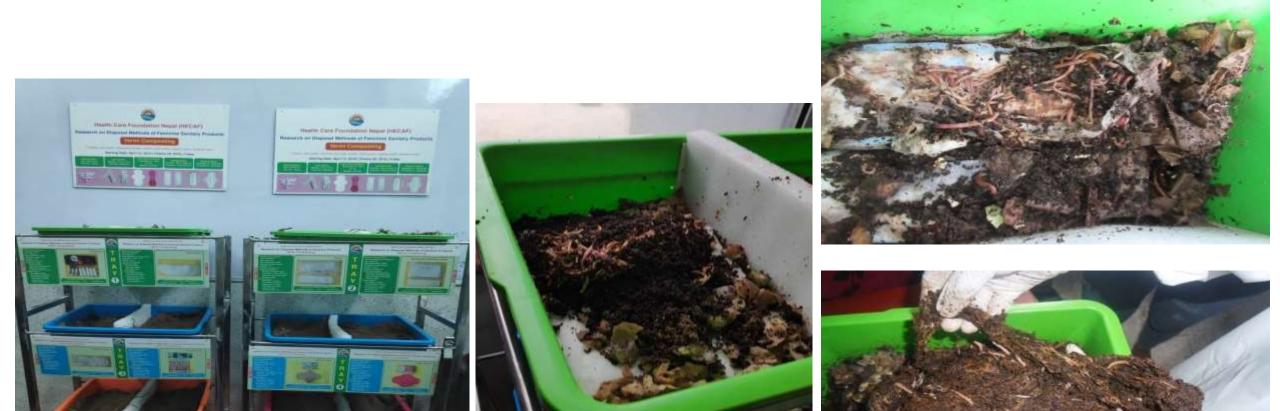






Disposal of Feminine Sanitary Products







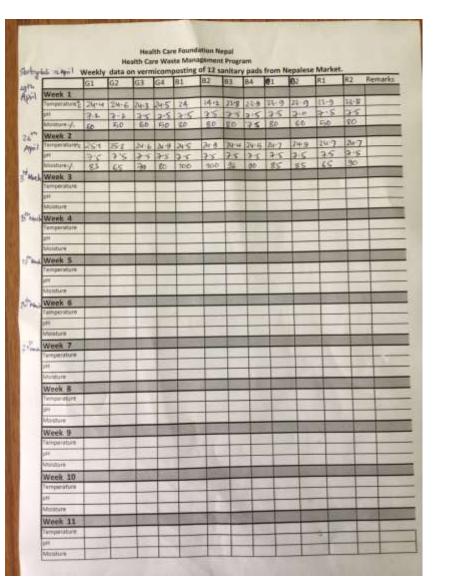




Weekly Recording of Vermicomposting in Feminine Hygiene Products





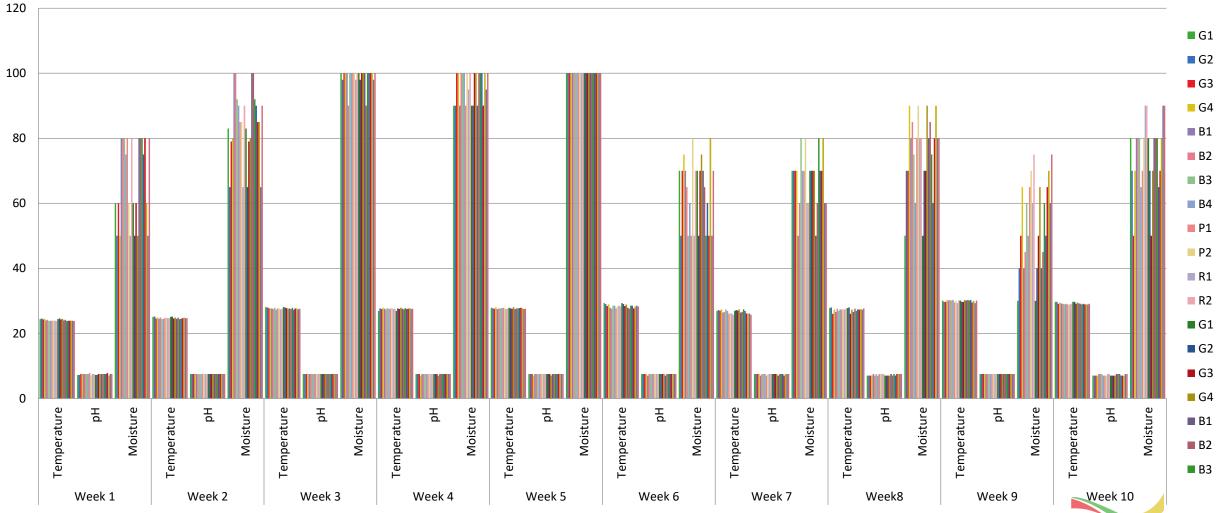








Variation of Environmental Parameters over the weeks





Tray 1: Maternity pad "Peripad" (G2)



Inoculation: 12 April 2019



Week 3: 3 April, 2019



Week 1: 19 April 2019



Week 4: 10 April,2019





Tray 2: Semjong (G4)



Inoculation: 12 April,2019



Week 1: 19 April,2019



Week 4: 10 May ,2019





Week 12: 5 July,2019



Week 17: 9 August ,2019



Week 21: 20 september, 2019





Tray 6: Whisper Ultra (R1)



Inoculation: 12 April 2019



Week 12: 5 July 2019



Week 1: 19 April 2019



Week 17: 9 August 2019



Week 4: 10 May 2019





Week 21: 20 Sep,2019















Separation of compost and vermi



Weighing the compost

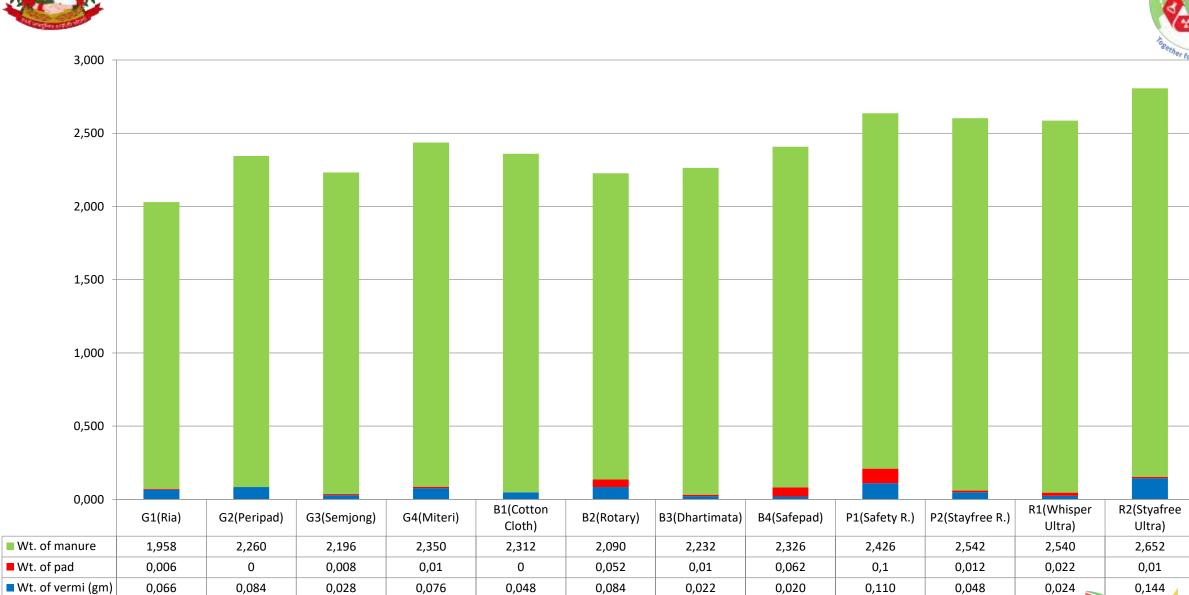


Weighing the Vermi



Weighing the Sanitary pad





RESULT

No time to wa



ARE YOU READY TO MAKE THE SWITCH



- For a Safe and Active LIFESTYLE
- For a CLEAN EARTH
- For HEALTHY FOOD, WATER & AIR
- For a HAPPY FUTURE

THE CHOICE IS OURS









Implemented by Health Care Foundation (HECAF) and funded by GIZ Support to Health Sector Programme



