VernaGel Sustainability Policy

The Product VernaGel™:

Super-Absorbent Sachets and Granules:

In response to inquiries regarding VernaGel™ sachets, sustainability and environmental impact, the following can be stated:

VernaGel™ is Non-toxic and Non-Bio accumulative.

After use & disposal when the product breaks down, over time it degrades, leaving behind simple traces of: Sodium Polyacrylate, Water and Silica Dioxide. Whilst it cannot be claimed to be 100% biodegradable as it does not return in its entirety to its base elements, it can be classed as 'compostable' and in a potassium based state could also be used as a soil wetting additive for agriculture and horticulture.

Silicon Dioxide < 0.5% (SiO_2), also known as silica, is a natural compound made of two of the earth's most abun-dant materials: silicon (Si) and oxygen (O_2). Silicon dioxide is most often recognized in the form of quartz. It's found naturally in water, plants, animals, and the earth. The earth's crust is 59 percent silica. It makes up more than 95 percent of known rocks on the planet. When you sit on a beach, it's silicon dioxide in the form of sand that gets between your toes. It's even found naturally in the tissues of the human body. Though it's unclear what role it plays, it's thought to be an essential nutrient our bodies need.

Sodium Polyacrylate - Sodium > 89.5% is an essential element for all animals and some plants. The origins of super-absorbents trace back to the early 1960s when the United States Department of Agriculture (USDA) developed the first super-absorbent polymer materials to help maintain water content of soils. It has even been used as an additive for food products including bread, juice and ice cream. Sodium polyacrylate is used in paper diapers and maximum absorbency garments, it is also used as a water-retaining agent on rocky slopes for increasing moisture availability in the soils. Sodium Polyacrylate is non-toxic and safe from any major risks.

Water < 10% Water is an inorganic, transparent, tasteless, odourless and nearly colourless chemical substance, which is the main constituent of Earths hydrosphere and the fluids of all know living organisms. It is vital for all known forms of life.

VernaGel, reducing the spread of infection

Body Fluid Spill Kit

A dry granule which soidifies bodily fluid in seconds isolating infection.

Product Codes: 450SC100 (100 sachets) 456MA475 (475g shaker) 456MA400 (4kg tub)

bsi. ISO 14001 Environmental Management

bsi. ISO 9001 Quality Management

SAFEcontractor APPROVED

KM 650633

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VernaGel™ has been assessed for its physical, health and environmental hazards and due to its non-toxic characteristics, it does not even meet the criteria for classification according to Regulation (EC) No 1272/2008. Therefore, no warnings, hazard pictograms, signal words or hazard statements are required for this product.

As with all Clinical Waste, VernaGel™ should be disposed of appropriately and in accordance with local, region-al and state legislation. Depending on the Biohazard absorbed by the end user, this should determine the appropriate waste stream for disposal of the type of fluid absorbed.

No Biological exposure limits are noted for the ingredients.
The product is stable and non-reactive under normal conditions of use, storage and transport.
The product is non-irritant to skin and is NOT considered to be a carcinogen by IRAC, ACGIH, NTP or OSHA

The product is NOT classed as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The management of disposal should be in line with local / organisation / state regulations.
VernaGel™ has no other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential)
VernaGel™ is not regulated as dangerous goods.

When VernaGel™ is used and disposed of, in accordance with local regulations, when used as designed for in application and when treated in storage and transport as advised, that VernaGel™ is environmentally sustainable.

VernaGel™ does not damage the long-term health of ecosystems, does not contribute to global warming, is not a threat to species diversity and ecological structure.
VernaGel™ contributes positively to global social welfare through substantially reducing the risk of infection chains and ensuring the safe disposal of Clinical Waste in healthcare environments. VernaGel™ increases patient dignity and reduces workloads for nursing staff. By preventing spillages, healthcare facilities can save huge sums of money in cleaning costs, and therefore reduce the spread of infection as well as carbon emissions.

The positive effects of using VernaGel™ to improve infection prevention and reducing cross contamination, saving lives and greatly reducing the risk of spread of disease or contamination from Clinical Waste, far outweigh any supposed imagined impact on the environment for which there is little or no scientific evidence or data.

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