Title of the Invention: Dog excrement and other biological hazard marking, decontamination and sanitisation fluid

Abstract Title: A Visible Antimicrobial and Deodorising Foam for use on Biohazards such as Animal Excrement to Provide a Visual Warning of the Hazard

A device containing foam to be dispensed onto biohazards such as blood, vomit, dog faeces or other animal excrement. The foam is coloured to ensure it is highly visible when dispensed to provide an indicator and visual warning of the hazard so that it can be avoided. The foam also has antimicrobial properties to reduce contamination risk by the biohazard, and anti-odorous properties to neutralise smells. The foam is temporary, and will degrade into a liquid with the same sanitizing properties in a time of between 1 and 30 minutes after being dispensed.
Description

A device and method to provide a visible marker for and warning of a biological hazard. The marker will also contribute to the decontamination and sanitization of the biological hazard once applied.

The marker will be in the form of a temporary foam, which decays over time into a liquid, but of which have antimicrobial and anti-odourous properties.

Further, the presence of the foam and liquid will form a physical barrier on the surface of the biological contamination, which in combination with the fluid’s odour, will deter flies and other flying or crawling insects (which can spread disease and contamination) from landing on the biological contamination.

Applications for the device and method include but are not limited to:

Dog and other pet excrement
Blood spills
Hospital spills
Vomit

The primary application is for the marking, decontamination and sanitization of dog and other pet excrement.

A responsible dog or other pet owner will have bagged the main body of excrement and done their best to clean it up, but almost always a perfect clean up is not possible and some residue is left behind.

For parents and children in the area, this device provides a marker to the fact that for a period of time before the residue dries up, there exists a heightened contamination and infection risk.

The device is a dispenser of, and recipe for a harmless fluid foam that is:

1) coloured and highly visible
2) Antimicrobial
3) Anti-odourous
4) Temporary

The foam has a lifespan as a foam of between 1 and 30 minutes, decaying into a harmless liquid that contains the same active antimicrobial and anti-odourous properties to continue protecting others from the risk for a period of time until it ultimately dries.

During this period the clean-smelling aroma of the foam and/or liquid state of the fluid dispensed will dissuade flies (or other flying or crawling insects) from settling on the remaining excrement, reducing the potential spread of contamination through these means.
Claims

Simple to use device and method to direct marking, decontaminating and sanitizing foam fluid onto any biological hazard.
Primary application is the biological hazard presented by dog and other pet excrement.
A temporary, highly visible coloured foam that has antimicrobial and anti-odourous qualities
Creates a highly visible marker to alert children and others to the contamination risk
Foam decays to a Liquid with the same beneficial properties as the original foam possessed
Foam and liquid deter flies and other insects landing on the excrement, reducing spread of contamination and potential disease
**Patents Act 1977: Search Report under Section 17**

**Documents considered to be relevant:**

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<th>Category</th>
<th>Relevant to claims</th>
<th>Identity of document and passage or figure of particular relevance</th>
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<tbody>
<tr>
<td>X</td>
<td>All</td>
<td>WO91/01949 A1 (WILSON) See claims 1, 10, and 13.</td>
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<tr>
<td>X</td>
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<td>DE4421511 A1 (NEUMANN) See abstract and claim 10.</td>
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<td>X</td>
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<td>DE3333887 A1 (ROTH) See claims 1-5</td>
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<td>DE19937983 A1 (DUONG) See claims 1 and 5</td>
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<td>X</td>
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<td>WO2004/099507 A1 (BARZIK) See abstract and claims 1, 18, and 20.</td>
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**Categories:**

X  Document indicating lack of novelty or inventive step
Y  Document indicating lack of inventive step if combined with one or more other documents of same category.
&  Member of the same patent family
A  Document indicating technological background and/or state of the art.
P  Document published on or after the declared priority date but before the filing date of this invention.
E  Patent document published on or after, but with priority date earlier than, the filing date of this application.

**Field of Search:**

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC:

Worldwide search of patent documents classified in the following areas of the IPC:

E01H

The following online and other databases have been used in the preparation of this search report:

WPI, EPODOC

**International Classification:**

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