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DEKONMATE – FIREFIGHTING DECONTAMINATION SOLUTIONS

Introducing DEKONMATE a recently released world leading product range that has been specifically developed to reduce the exposure of firefighters to contaminants at the scene of the fire.

DEKONMATE is the registered trademark of DECON International that is part of the Human Technologies Group of Companies established in 1998 to develop and manufacture specific decontamination and personal hygiene products for the Healthcare and Biosecurity sectors.

The background to the development of the DEKONMATE product dates to 2017 when it was brought to our attention that firefighters and first responders were often exposed to a number of toxic contaminants resulting in them having a significantly higher rate of cancer than the average person, largely due to the dermal absorption of contaminants.

As a result, we embarked on the development of a product and established a new purpose focussed company called DECON International Pty Ltd to focus on the development, testing, and manufacture of a product range capable of removing a high degree of the most toxic contaminants on site at the scene limiting dermal absorption.

The outcome of 3 years of development, scientific and dermatological testing and verification by internationally recognised authorities is a world leading innovative product range we have branded DEKONMATE. Test results have proven that after wiping with DEKONMATE Decontamination Wipes the following average on skin reduction (of the most significant contaminants experienced in a combustible environment) is achieved.

a. Polycyclic Aromatic Hydrocarbons (PAHs)	–	up to 97% reduction
b. Organophosphate flame retardants (OPFRs)	–	up to 91% reduction
c. Polybrominated diphenyl ethers (PBDEs)	–	up to 94% reduction
d. Metals (Cadmium, Lead)	–	up to 90% reduction

Internationally significant research has been undertaken and numerous Government and Health & Safety bodies have now recognised and documented the occupational risks associated with exposure to contaminants in combustible environments such as PAHs, OPFRs, PBDEs and Metals.

Recently major fire authorities in Australia & New Zealand have integrated the DEKONMATE Decontamination Wipe into their decontamination protocol.

In addition to the DEKONMATE Decontamination Wipes referenced above that were designed for specific use on human skin, we have also developed and manufacture the DEKONMATE Equipment Wipe for decontaminating exposed surfaces on appliances & equipment, and DEKONMATE Decontamination Bag for encapsulating contaminated turnout gear and equipment for transport / transition.



The intended use of the DEKONMATE Equipment Wipe, which is a larger cloth than the personal Decontamination Wipe and in a high-volume canister for cleaning touch points on the appliances and contaminated equipment such as:

- helmets
- breathing apparatus cylinders
- breathing apparatus pneumatics
- breathing apparatus set harness/backplates and webbing.
- hand tools such as axes, hooligan tools, ceiling hooks etc.
- hydraulic tools and hydraulic hoses, power tools, RPAS/drones etc.

It has similar contaminant removal rates as the DEKONMATE Decontamination Wipe and should be used in accordance with the original equipment manufacturers recommendations.

DEKONMATE is an inexpensive and proven control measure to reduce Health & Safety risks in firefighters and first responders.

Information on the DEKONMATE Product Range is available for downloading in the "Products" tab of our website www.dekonmate.com

We trust you find this information of interest and we are available to answer any questions you may have.

Thank you.

Yours sincerely

A handwritten signature in black ink, appearing to be "Lyle K Jackson", written over a horizontal line.

Lyle K Jackson
Director