

# HOTZONE IDENTIFIER: HAZCAT KIT

## On-the-Spot Categorisation of the Unknown

The Hotzone Identifier HazCat kit enables rapid identification of the hazard(s) associated with gas, solid, and liquid unknowns, spills, waste. This information is critical for the hazmat responders to complete the risk assessment. Categorisation of the potentially hazardous waste provides for its labelling, safe transport and disposal. The kit is self-contained and features the step-by-step field guide detailing the procedures which are quick and easy to perform.

Hotzone Identifier HazCat kit procedures use strip tests and wet chemistry tests to provide the user with the critical information on the unknown substances flammability, explosive behaviour, acid- base properties, aggressive/corrosive behaviour, reactivity with water, oxidiser properties, potential toxicity, relative solubility and density. The kit also enables quick and simple identification of 5 most frequently encountered toxic industrial gases. The reagents, test strips and utensils are housed in the waterproof Pelican case in sufficient quantities to last for a relatively large number of tests. The built-in working surface provides for clean and convenient field work



The first responders and the chemical waste managers need to know of the hazards related to the substances they are dealing with. Is there a fire or explosion hazard? Should water be used? Should runoff be contained? How to transport, label, and dispose of the waste? On the spot identification of the substances and materials may be complicated due to complex nature of the samples or event. Off- site laboratory analysis is often time consuming and relatively expensive.

Hotzone Identifier HazCat kit procedures aim to identify the hazards rather than the substance(s). That way they supply the user with the critical information needed to make expedient and safe decisions.

The test procedures are based on fundamental chemistry principles and thus reliable. However, they are simple enough to be performed by a non- chemist. The portable “laboratory” is housed in the customised Pelican™ case: corrosion-resistant water-tight, shock absorbing, but still convenient to carry or store. The Hotzone Identifier HazCat kit ideally complements portable, handheld Raman technology such is the Serstech Indicator (<http://serstech.com/>).

Raman technology is the first choice for the responders on the field. However, this technology has its limits, notably when dealing with the thermally sensitive, complex, black and brightly coloured



materials. The Hotzone Identifier HazCat kit allows for rapid assessment of thermal hazard of the materials and characterisation of the samples not amenable to the Raman.

