

EXPLOSIVES DETECTION & IDENTIFICATION

Effectively detecting
well-known and
improvised explosive
compounds



Field test kit with immediate results

For use indoors or outdoors in any
weather condition

Fast and Easy to use
No special training required

Wipe the suspected surface, spray with the
related aerosol or use the Dropex dropper

Instant color reactions indicates the type
of explosive

Sensitive, detects as little as 20 nanograms
of explosives



**Immediate Results • Accurate • Sensitive
Inexpensive • Safe • Easy to Use**

 **MISTRAL GROUP**

TECHNICAL BACKGROUND

Expray®

Expray® is a unique, aerosol-based field test kit for the detection and identification of Group A explosives (e.g. TNT, TNB, etc.), Group B explosives (e.g. Semtex H, RDX, C4, etc.) and the group of compounds containing inorganic nitrates that are used in improvised explosives (e.g. ANFO). Expray® is used as a pre-blast and a post-blast tool, when used as a post-blast investigative tool, the product is proven to speed up crucial investigations. Expray® is also used as a technical evaluation test in soil remediation on hazardous material "clean-up" sites.

The level of sensitivity (20 nanograms or less) surpasses that of other currently available products. The testing process is fast and efficient. No glass ampoules, spatulas or waiting period required. Results appear in seconds. No additional tools or equipment required. The identification/detection process requires no special training and testing can be performed "on the spot".

For both law enforcement and investigative personnel, Expray® is a proven tool for increasing the accuracy, efficiency and number of interdictions. For forensic and environmental laboratories, it has been proven to reduce the number of samples submitted for testing, saving both time and money.

Expray® is sold in a kit configuration, which provides all three aerosol sprays, collection papers, and an RDX-impregnated verification pad (verification pad is useful for ensuring that the spray still contains active reagents, and for demonstrating how a positive reaction will appear) in a convenient plastic carry case. Expray® kits are available in both regular size (100 tests) and mini-size (50 tests).

Expray® provides a low "per test" cost and poses no risk to you or the environment.

Drop-Ex Plus

Drop-EX detects the widest possible range of explosive types, due to its ability to detect the additional explosive categories for improvised explosives: Chlorate and Peroxide-based explosives.

Peroxide-based explosives are powerful explosive substances that can be prepared from several over the counter materials. This well-known explosive type is currently in use by terrorist groups. This explosive material is usually known by its abbreviation TATP (Tri Acetone Tri Peroxide).

Drop-EX Plus uses the same reagents as Expray®, but in dropper bottles, for ease of use during field and laboratory investigation.

The detection range of the kits:

Drop-Ex 1: for Group A (Nitroaromatics) - this type of explosives includes TNT, Tetryl, TNB, DNT, picric acid and its salts.

Drop-Ex 2: for Group B (Nitrate esters and nitramines) this type of explosives includes Dynamite, Nitroglycerine, RDX, C4, PETN, Semtex H, Nitrocellulose and Smokeless Powder. NOTE: Most plastic types of explosives belong to this group.

Drop-Ex 3: for Inorganic Nitrates. The Nitrates based explosives include ANFO (Ammonium Nitrate-Fuel Oil), commercial and improvised explosives based on Inorganic Nitrates, Black Powder, Flash Powder, Gun powder, Potassium Nitrate, and Ammonium nitrate.

Drop-Ex U: for the detection of urea Nitrate.

Drop-Ex A: for Chlorates and Bromates. This type of explosives includes potassium chlorate and sodium chlorate.

Drop-Ex B: for Peroxide-based explosive compounds, includes TATP (Tri Acetone Tri Peroxide) and HMTD.

Drop-Ex P: for the detection of perchlorate salts.



Expray® Plus



Expray®



UDK/PDX



Drop-Ex Plus



Expray® Master

MISTRAL DETECTION LTD.

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