



## HELIX™ - High Energy Liquid Explosive

HELIX™ High Energy Liquid Explosive is a powerful and versatile liquid explosive which eliminates the logistical difficulties usually encountered in shipping and storing high explosives. HELIX™ is sold as two components, the liquid and the activator, each of which can remain in long term storage. When mixed, HELIX™ is a detonator sensitive, high explosive with high gas volume, high bulk energy and consistent detonating velocity.

### APPLICATION:

- Breaching
- Explosive ordnance disposal
- General demolition
- IED defeat

### KEY FEATURES:

- Non-explosive until mixed
- Mixes and arms instantly
- Easy to use
- Adaptable
- Non-explosive shipping and storage classification
- Reduced logistics cycle
- Ready to ship

### PROPERTIES:

- Velocity: 6,400 m/s (21,000 f/s)
- Density: 1.3g/cc
- High bulk energy
- Thermally stable to 167°F (75°C)
- Low sensitivity to friction, impact and electrostatic discharge (ESD)

HELIX™ Liquid:  
Flammable Liquid  
UN1309, 4.1

HELIX™ Activator:  
Flammable Solid  
UN1309, 4.1

### HELIX™ - HIGH ENERGY LIQUID EXPLOSIVE

BINARY HELIX™ LIQUID & ACTIVATOR PLASTIC CONTAINERS	CONTAINER SIZE (NOMINAL)	NET EXPLOSIVE WEIGHT (NOMINAL)	
		lb	kg
Small	8" x 1.38" (20.25 cm x 3.5 cm)	0.4	0.20
Medium	0.4 Gallon (1.5 Liters)	3	1.36
Large	1 Gallon (3.75 Liters)	10	4.5

EBA&D is able to tailor binary portions to meet most operational requirements.

### OPERATION:

HELIX™ High Energy Liquid Explosive is supplied as a two component system. The flammable liquid and flammable solid are combined and mixed to form the high explosive formulation ready for use. HELIX™ is sensitive to No. 8 strength detonators at ambient conditions as well as 50 g/ft (10 g/m) detonating cord. HELIX™ can also be supplied in breaching frames where only the flammable liquid needs to be added.

HELIX™ is suitable for use and can be utilized in multiple end items such as shaped charges, bulk charges, disrupters and common demolition configurations.



The liquid and the activator



HELIX™  
Explosively Formed Projectile  
(EFP)



Function



Post Function