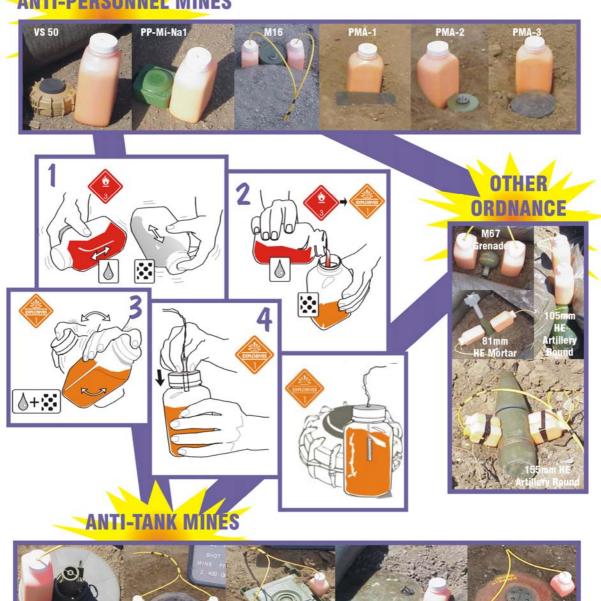


a **SMARTER** explosive for demining and EOD blow-in-place operations

NOT AN EXPLOSIVE UNTIL MIXED WHEN NEEDED REVERTS TO A NON EXPLOSIVE AFTER A PERIOD OF NON-USE

ANTI-PERSONNEL MINES



1555 Sydenham Road • Kingston, Ontario K7L 4V4 • Canada

FIXOR[™] DESCRIPTION

FIXORTM is comprised of two plastic bottles. One bottle contains **FIXOR**TM **Liquid** (flammable liquid); the other bottle contains **FIXOR**TM **Powder** (inert powder). When the FIXORTM Liquid is poured into the bottle containing the FIXORTM Powder, and the bottle is shaken, a detonator sensitive **FIXOR**TM **Explosive** is formed. Unlike ammonium nitrate based two-component explosives and traditional explosives, FIXORTM Explosive **self-neutralizes** after a period of time, becoming a non-explosive. This unique characteristic of FIXORTM is very important to those Customers concerned with the proliferation of explosives-based terrorist devices. Unlike ammonium nitrate based two-component explosives and traditional explosives, FIXORTM can be transported around the world by any method, including commercial passenger aircraft. This makes FIXORTM **rapidly available** to those Customers who require demolition explosives quickly. FIXORTM has been **proven effective** at destroying a large variety of anti-personnel and anti-tank landmines as well as unexploded ordnance (UXO). Complete information on FIXORTM is available at **www.FIXOR.com**. A CD-ROM containing an mpeg video of FIXORTM being mixed and detonated is available. Contact MREL or your Authorized FIXORTM Representative for more details on FIXORTM.

FIXOR[™] LIQUID PROPERTIES

Part Number	1-60-01	NATO Stock Numb	er 1375-21-920-4587						
TDG Classification and Authority	Transport of Dangerous Goods (TDG): Class 3 Flammable Liquid, UN 2842, Packing Group III. Chief Inspector of Explosives, Explosives Regulatory Division, Natural Resources Canada, Government of Canada.								
Colour	Red. Health/Environmental Concerns Use in ventilated areas or outdoors. Material Safety Data Sheet (MSDS) supplied								
Inner Packaging	500-ml plastic bottle wit	h removable plastic lid	Shelf Life	7 years when stored in accordance					
	L x W x H: 76 x 57 x 15	52 mm (3 x 2 ¼ x 6 in.		with manufacturers instructions.					
Outer Packaging	Plastic drum UN 1H2/Y47.5/S/06/CAN/GBC/2-604 containing quantity 48 ea. FIXOR [™] Liquid plastic bottles per drum.								
Drum dimensions = D x H 37.5 x 47 cm (14.75 x 18.125 in.). Cube 0.051m ³ . Gross weight per drum = 22.2 kg (48									
	Net Dangerous Goods 15.4 L (17.0 kg) UN2842 NITROETHANE 30°C c.c. CLASS 3 PG III								
Pallet Packaging	24 ea. plastic drums of FIXOR [™] Liquid per pallet. Quantity 1152 x 500 ml plastic bottles per pallet.								
	Pallet dimensions = L x W x H: $122 \times 102 \times 152$ cm (48 x 40 x 60 in.). Cube 1.89 m ³ . Gross weight per pallet = 560 kg (1235 lbs.) Net Dangerous Goods 369.6 L (408.0 kg) UN2842 NITROETHANE 30°C c.c. CLASS 3 PG III								
Shipping/storage	Ship and store pallets and boxes of FIXOR [™] Liquid in accordance with regulations for the shipping and storage of flammable liquids.								

FIXOR[™] POWDER PROPERTIES

Part Number	1-60-02		ATO Stock Number	1375-	21-920-4638	Classification	Inert powder, not subje		bject to TDG regulation	ons.
Colour	White/orange.	Health	Environmental Concerns None. Material Safety Data Sheet (MSDS) supplied.							
Inner Packaging	500-ml plastic bottle with removable plastic lid. L x W x H: 76 x 57 x 152 mm (3 x 2.25 x 6 in.). Shelf Life Indefinite.									
Outer Packaging	Fiberboard box containing 24 ea. FIXOR [™] Powder plastic bottles. Box dimensions = 50.8 x 24.8 x 16.5 cm (20 x 9.75 x 6.5 in.). Gross weight per box = 2.5 kg (5.6 lbs.).									
Pallet Packaging	48 ea. fiberboard Pallet dimensions	48 ea. fiberboard boxes of FIXOR [™] Powder per pallet. Quantity 1152 x 500 ml plastic bottles per pallet. Pallet dimensions = L x W x H: 122 x 102 x 114 cm (48 x 40 x 45 in.). Cube 1.42 m³. Gross weight per pallet = 148 kg (327 lbs.).								
Shipping/storage	The shipping and storage of pallets and boxes of FIXOR [™] Powder are not regulated. For added security, store FIXOR [™] Powder under lock and key, and separately from FIXOR [™] Liquid									

FIXOR[™] EXPLOSIVE PROPERTIES

Classification and Authority	Class 1.1D explosive. Charges, demolition UN 0048. Chief Inspector of Explosives, Explosives Regulatory Division, Natural Resources Canada, Government of Canada.									
Colour	Orange.	Net Explosive Weight	400 g (0.9 lbs.)		Density	0.9 g/c	cc. Detonation		on Velocity	4,300 m/s (14,100 ft./sec.).
TNT Equivalency	85% by weight (as determined by air-blast tests). Operational Tempe					Гетрега	rature Range -40° C to +65° C.			
Operational Time	Detonate within 2 hours of mixing, or remix by shaking before detonating. Shelf Life Indefinite.									
Initiation	Knotted detonating cord, or detonating cord with "crimp-on" detonators, or "#8" detonators which contain at least 0.8 g of base charge.									

FIXOR[™] has been deployed to pre-qualified Customers in many Countries around the world including:

Afghanistan Armenia Azerbaijan Cambodia Canada D.R. Congo Eritrea Ethiopia Mozambique Netherlands Nicaragua Rwanda Somaliland Sudan Thailand USA Zambia



Information and suggestions herein are based on MREL's extensive experience and are offered only as a helpful guide for the consumer of demolition materials. Because FIXORTM is used under varying conditions, over which MREL has no control, MREL does not guarantee the results of use of FIXORTM nor does MREL assume any liability connected therewith. For additional information, please contact MREL or your Authorized FIXORTM Representative.

