

# ENVIRO MASTER ALL B



## 1-6% VARIABLE RATE PROPORTIONING ULTRA HIGH PERFORMANCE FIRE FIGHTING FOAM

(B.V.R.F.) Class B Variable Rate Foam Master Series Fire Fighting Foam Range.

**Enviro Master** ALL B (V.R.F) Variable rate Fire Fighting Foam, is a 1-6% Fluorine Free (FF) alcohol resistant (A.R) variable rate proportioning foam concentrate, manufactured for extinguishing and managing all types of class B flammable liquid fires and Class A Incidents. **Enviro Master** ALL B has been specifically formulated for high pressure emergency responses.

**Enviro Master** ALL B (V.R.F) Variable rate Fire Fighting Foam, uses an organically approved combination of environmentally ethical ingredients, fully bio degradable organic products no synthetics PFOA PFOS formaldehydes or any non-organic harmful ingredients.

**Enviro, Master** ALL B (V.R.F) Variable rate Fire Fighting Foam, has been the result of over a decade of out of the box thinking and testing. Vapor sealing foam blankets with the usage of PFOS, PFOA Fluorine and synthetic type manufactured chemicals are not only non-bio degradable, toxic, and cause bio accumulation within mammalian ecological and environmental toxicology reports after years of usage of such types of fire foams are very concerning, the usage of such chemicals over the past many years has caused much damage not only environmentally but in human matter the results are very concerning. The myth that a barrier of thick fluffy foam enhanced with these types of performance enhancing chemicals was the only option in the extinguishment of petroleum liquid fuel fires hydro carbon and polar solvent.

Matthew Draganoff a veteran of fire and highly qualified Firefighter and Chemical Expert taught under the wing of veteran Chemist and firefighting foam legend Mr. David McCulloch, knew this wasn't the answer and the only method in the fight against these types of fuel liquid incidents.

**ONE STATEMENT MADE BY MANY, A THICK BLANKET CUTS OXYGEN TO THE FIRE, WE HAVE MADE IT STRONGER AND HEAVIER! (OUR RESPONSE TO THIS) ANY THERMAL FOAM BLANKET BARRIER APPLIED TO FUEL LIQUID CUTS OXYGEN BUT ALSO LOCKS IN HEAT WITH NO QUENCHING ABILITY CAUSING A THERMAL LOCK, THIS THERMAL LOCK HINDERS TEMPRETURE REDUCTION, WHICH IN TURN EQUALS THERMAL BLANKET MELT DOWN, THERMAL DESTRUCTION IN SUPERHEATED ENVIRONMENTS. THIS METHOD OF EXTINGUISHMENT EQUALLS NON-EFFICIENT FUEL FIRE EXTINGUISHMENT. SUPERHEATED STRUCTURES AND VESSELS WHEN FULLY INVOLVED DEPENDING ON FUEL TYPE BURN AT OR NEAR 1100-1350 DEGREES, MELTING POINT OF STEEL. IF STEEL IS AT MELTING POINT FOAM BLANKET DESTRUCTION IS ENEBADABLE CAUSING BURNBACK AND EVENTUALLY FULL REIGNITION OF FUEL SOURCE. THIS METHOD IS VERY INADEQUATED.**

After years of development, **Enviro Master** ALL B 1-6% Variable rate proportioning Fire Fighting foam is here!!! THE BREAKTHROUGH AND NEW FIRE FIGHTING STRATERGY, METHODS and attack principles from one of the most technical, passionate and experienced firefighters on this earth, using both his fire fighting knowledge and understanding, training and schooling and having both mentors in the fire

industry and chemical industry, both Brian Clark Fire fighter (mentor to Matthew) and David McCulloch chemistry expert, taught him well. Quote” THERE IS NEVER NOT A SOLUTION TO A PROBLEM, IN MOST INSTANCES PROBLEMS CAN NOT ONLY BE SOLVED BUT FIXED AND MADE SUPERIOR. Matthew Draganoff.

**Enviro Master ALL B** has been designed in a totally different and patented format compared to competitor products, the thinking that we can just strengthen a thermal blanket and hope for the best is total insanity, why???

From a vehicle fuel tank to road tanker to storage tanks of shore vessels and oil rigs the list and storage of flammable liquids goes on, aviation fuel, crude oil, distilleries to name a few areas that foam is used all have different surroundings and constructions are vast and differ greatly in strengths and thickness, not to mention many other factors that play havoc in our role of incident management. **Access- Attack- Contain- Extinguish**, not to mention the after math of possible environmental devastation once the incident is over which in the past has cost more than the incident itself.

**Enviro Master ALL B** the result, created through countless hours of testing, trialing, using new and improved methods from a company truly passionate and a thorough understanding in the industry. We were certain extinguishing methods adopted and used globally by agencies required a major upgrade.

Enviro Master ALL B was designed truly as an All B polar solvent, Hydrocarbon Extinguishing media and each extinguishing principle was thought out, every proportioning - application system and method was worked on and trialed, every environmental consideration was taken into consideration and dealt with even to a point that Enviro Master ALL B starts to advance bio degradation on substances like crude oil.

#### **AIT REDUCTION – FUEL MOLECULE REDUCTION**

**Enviro Master ALL B** is formulated with patented auto ignition temperature reduction properties. **Enviro Master** when proportioned and applied using the new variable rate system instantly goes to work reacting with and reducing the octane levels to the point of non- combustion. From 1300 degrees thermal reduction to under 14 degrees within seconds to a few minutes depending on fuel source and environment, this patented technology acting alongside other patented extinguishing media break down any liquid octane product to the point of no ignition, its that good it starts the chain reaction of bio-degradation (Patented formula)

#### **Sudo-Cling and Strengthened thermal foam blanket**

This carries the formulation of proportioned product to the heat source, it is not the primary extinguishing media, its purpose is to reduce the radiant heat and carry Enviro Master formulation so its natural media of renewable resource can get to work.

***The auto ignition reduction principles alone make Enviro All B unstoppable in any environment***

#### **VARIABLE RATE PROPORTIONING**

**Enviro Master ALL B 1-6%** Variable rate Proportioning was designed on the strength of a 1% Fire foam with added extinguishing media, the thermal blankets protection and cling properties were designed and the total formulation of **Enviro Master ALL B** is NON- NEWTONIAN, which its viscosity in any temperature will operate in any foam proportioning system fixed or portable and operates at any percentage.

The variable rate proportioning system was designed to meet and extinguish any liquid fuel polar solvent, hydrocarbon or crude at 1% Proportion rate, this also was designed for usage in any fixed system 1-3-6 or digital meterage percentage systems 2-4-5.

For large scale incidents proportion at 1% and using thermal imaging technology measure core heat whilst applying Enviro Master. Continually monitor core temperature of fire, depending on many factors superheated steel and burn time will depend on the operator's decision to increase the products proportion rate 2% monitor if no reduction 3% etc., at this point 3% has extinguished every flammable liquid in a vast range of superheated extremities.

We also extracted media from a natural product that forms a barrier this gives a slight enhancement but its property assists in the total concentrate and actually aids with our corrosion inhibitor which also is a natural media extraction.

**Enviro Master** is a variable proportioning class B foam proportioned at a percentage ratio to suit the incident at hand.

**Enviro Master** utilizes our new innovative sudo cling technology creating a foam blanket that attracts and clings to liquid matter enabling a foam barrier that will not blow of in windy or unforeseen circumstances.

**Ask us about Sudo Cling Technology.**

**Enviro Master** can also be used in deep sea operations where fuel and oil spillages can be held together with Enviro Masters foam blanket, another innovative first.

**Based on our USDA Proven formulation for Class A Fires. Developed with the addition of Organic and sustainable renewable resources which are carried by the vapor suppressing blanket for maximum firefighting efficiency. Specifically designed not only for suppression of fuel fires, but also to remove them negative environmental impact by Fluro and some non-Fluro foams. Tested to meet and exceed the requirements of ICAO Level C Standards.**

**Applications** **Enviro Master** is used in high risk situations where hydrocarbons (such as oils, gasoline, diesel fuel, and aviation kerosene) are stored, processed, or transported and/or polar solvents (such as alcohols, ketones, esters, and ethers) are stored, processed, or transported.

## Approvals and Listings

**Enviro Master** creates an organically approved vapor suppressing foam blanket on unignited hydrocarbon spills, while octane reduction properties start reducing the flammable fuel properties.

**Enviro Master** can also be used as a wetting agent in combating fires in Class A materials and structures such as wood, paper, and tyres.

**Enviro Master** has been independently tested, and meets and exceeds the requirements outlined by ICAO Level C Standards.

**Enviro Master** has been approved for usage on organic properties by NASAA (2017), as well as carrying local government approvals and acceptance.

**Enviro Master** is developed for usage from 1-6% as a variable rate proportioning extinguishing agent on hydrocarbons and polar solvents. **Enviro Master** is readily proportioned using conventional foam proportioning equipment such as portable and fixed (in-line) foam venturi proportioners, handline nozzles/branch pipes with pick-up tubes, balanced pressure variable flow proportioners, pressure bladder tank proportioners, and around-the-pump proportioners.

## Compatibility

**Enviro Master** is suitable for use in combination with:

-Soft or hard, fresh, brackish or sea water.

-Expanded protein-based or synthetic foams for application to a fire in sequence or simultaneously. It also will not react with other Master Series Fire Fighting Foams.

## Environment

Enviro Master is PFOS free in accordance with new South Australian State Regulations, as outlined by the state's EPA Authority.

Enviro Master contains no formaldehyde's, or aggressive preservative based contaminants. Enviro Master is free from fluorinated surfactants & polymers.

## Storage

Due to its high biodegradability, Enviro Master has a minimum lifespan of TEN years depending on storage. Annual testing is necessary to maintain product effectiveness.

## Disposal

For fire water runoff and accidental spillage please refer to the Enviro Master SDS Sheet.

### Typical Physio-Chemical Properties

Appearance		Translucent white
Specific gravity @ 20°C (68°F)		1.02 – 1.04
pH @ 20°C (68°F)		7 - 8
Viscosity	cP	Non Newtonian
Maximum continuous storage	°C	40 (104)
Maximum intermittent storage	°C	60 (140)
Effect of freeze/thaw		No performance loss
Lowest use temperature	°C	-5
Sediment as shipped	%	≤ 0.1
Sediment after aging	%	≤ 0.5

### Typical Foam Properties:

These vary depending on the performance characteristics of the foam.

Induction rate %	1-6% Variable Rate for all fuel liquids and crudes.
Expansion ratio Depending on	≥ 9:1 Average
25% drainage time	≥ 45min0

Available in 20lt pails, 200lt plastic drums, 1000lt IBC, Containers

**Urgent restocking- reordering Phone 08 83809976 Email MDraganoff@aol.com**

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