

The Guardian™ System

from **CAYLYM**

A significant advance in aerial firefighting enabling hundreds of mission ready cargo aircraft by employing CDS protocols to work in tandem with ground crews and the existing aerial fleet.



The Guardian™ System's delayed opening sequence allows for delivery altitudes of 800ft AGL and higher, opening the possibility of 24hr operations.

No aircraft modifications and zero corrosive contact make The Guardian™ System clean and simple.

- Unitized, Container-Based System
- Compact Shipping & Storage
- Uses Standard CDS & LVAD Protocols



Each unit measures 4x4x4 ft delivering 264 gallons of retardant per unit. Below are example aircraft and load capacities with The Guardian™ System.

C-130	16 Guardian Units	4,244 gal
C-27J	6 Guardian Units	1,584 gal
C-17	40 Guardian Units	10,560 gal
CH47	6 Guardian Units	1,584 gal

The Guardian™ System enables hundreds of mission ready cargo aircraft to work in tandem with ground crews and the existing fleet.

Safe

- Delivery altitude of 800ft AGL and higher is consistent with CDS protocols
- The Guardian™ System allows for maximum delivery airspeed (airframe dependent)
- LVAD and CDS standards simplify mission protocols and maximize mission safety
- Standard load handling and gravity drop protocols are well proven and established
- Unit components remain tethered and land within the target zone, minimizing cleanup
- Vertical restraints secure Guardian units in-flight – No shifting/spills/corrosion
- Unique, sturdy, seven layer, continuously wound, corrugated box construction
- No seams or glued edges – Sturdy for handling, loading and in-flight turbulence
- No metal, pyrotechnic or other hazardous components for improved personnel safety

Effective

- Hundreds of mission ready aircraft available
- Maximizes aircraft cargo capacity per mission (airframe dependent)
- Delivery altitude allows for 24hr aerial firefighting – because wildfires don't sleep
- True force multiplier – Complimentary to MAFFS, air tanker and ground crews
- The Guardian's versatile containerized system allows for multiple drops per payload

The Guardian™ System Advantage	Gallons per Payload		Approx. Load Time	Prep Time	Pre-Mission A/C Prep	# of Personnel to Build/Fill/Load
	C-130	4,224	K-loader 20 mins max.	Each box builds and fills in mins & independent of aircraft	None	2 person team can prep and fill a single Guardian unit in 3-5 minutes
	C-27J	1,584				
	C-17	10,560				
	CH-47	1,584				

Reliable & Available

- Over 65 successful test drops (92,400 gal) from C-130, C-27J, and C-123 aircraft
- All products designed, manufactured and supplied by reliable US corporations
 - Responsive production times
 - Paired with the #1 manufacture of corrugated cardboard, International Paper
- Exceeds industry standards with rigorous ISO 9001-2008 compliant quality controls

Cost Effective

- No additional aircraft maintenance, service, retrofitting or cleanup required
- Any existing rear-loading cargo aircraft can deploy The Guardian™ System
- Simple logistic requirements allow for rapid response and attack
- Maximum payload capacity and 24 hour use may reduce fire event cost and losses