



# **Safe Transportation Solutions**

**Chemicals / Lubricants / Paints / Liquids  
In Drums / Pails / Tins / Jars**

**RAMRATAN SINGHI - FOUNDER and CEO - SURE GROUP**

# Stresses on Cargo

Liquids - By very Nature is difficult to handle cargo and creates stress on Primary Packaging

Protective Packaging is often used to secure cargo on Pallet or Truck Floor with lashing / unitising

Multiple handling and Bad roads, can however still create challenge in securing cargo while in Transit.

Hence the Need for Additional Safety measures in India when transportation of liquids is involved.



# RISKS in CHEMICAL LOGISTICS due to Poor SUPPLY CHAIN PACKAGING



Poor Quality Pallets

Straps that break / Elongate

Stretch Wrap that fails to "Hold"

Gaps between Pallets not Filled with DUNNAGE



## RISKS in CHEMICAL LOGISTICS due to Poor SUPPLY CHAIN PACKAGING

### Inadequate Securing Can Lead to Damages



Gaps in Cargo -

As seen in Blue Jerry Cans

Truck, leads to Shifting of Cargo

PP Straps used are low-Strength

And Stretch Wrapping has lost its "Tightness" to hold Cargo

Low-quality Lashing Straps

Can also lead to Pails shifting and getting Damaged



# Issues Identified for ROAD Transport

## Chemicals/ Liquids



- Gaps between Cargo - Leads to Movement - Causes Denting / Leakage
- Gaps between rear door of Container and Cargo, creates Forward/ Backward movement - Leads to Damages
- Trucks have more Jerking/ Jumping behind the rear Axles, causing excessive stresses due to bad roads, even at slow speeds
- Driver Training / Monitoring is another gap that needs to be addressed when handling sensitive / hazardous cargo
- Loading Supervisors knowledge and lack of initial planning to secure cargo for different truck types / mixed loads can also add to cargo damage issues

# Block Forward /Backward movement CARGO RESTRAINT SYSTEMS



E-Tracks - Horizontal

Provide Flexibility to

“LOCK-IN” Cargo where its Ends

On Truck Floor along the Length.

## **CARGO RESTRAINT BEAMS**

Are Engaged with E-Tracks

To provide 100% assurance

Against Back-shifting of Cargo,

Even when truck has to take “Emergency Brakes”



# Cargo Securing - Dunnage Air Bag

## Gap / Void filler

### Use of DUNNAGE AIR BAGS

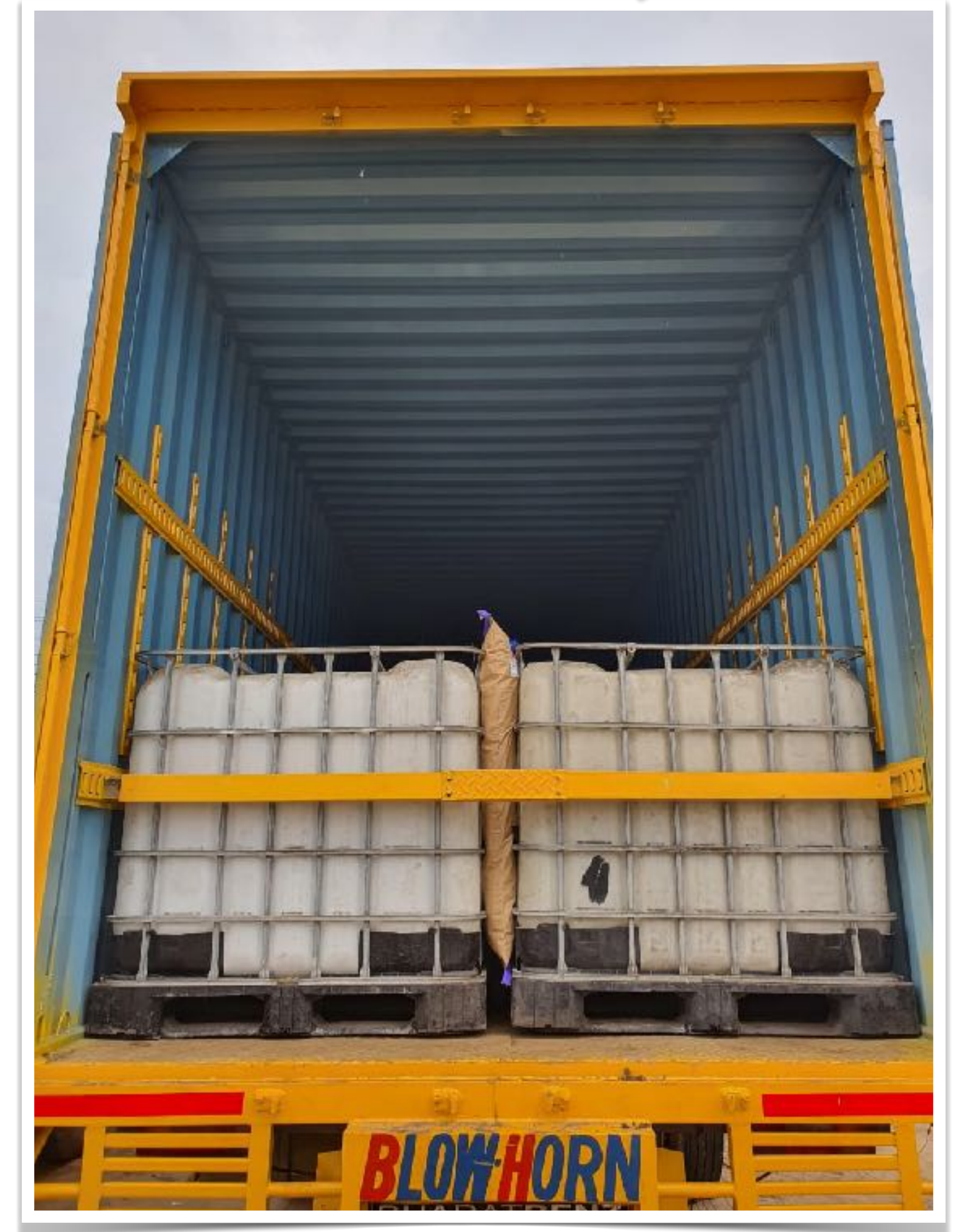
To Restrict Horizontal movements (Side-Ways)

Is highly effective and very low-cost solution  
to prevent Cargo damage.

Air -Bags also act as “Cushion” to Absorb Shocks

And further reduce the “stress”

on Primary Packaging



# CARGO TOP DOWN

## Reducing Vertical Movements



E-Tracks - Vertical are used to  
Secure Cargo with Cargo Restraint Beams  
To block the potential risks due to  
Jumping / Jerking in Rear End of Trucks





# Importance of Driver Training

## Cargo Securing - Basic Training Required



Strongly Recommend to Train Drivers  
For Basics of Cargo Securing and use of  
Cargo Restraint Systems



# Driver - State monitoring systems

## Drowsiness Detection and Forward Collision Warning



There is nothing more important  
Than ensuring safety  
of your Cargo on Road.  
A DRIVER State-Monitoring  
And Forward Collision Warning  
System Installed Trucks,  
Can be given "Preferential Load"  
And "Green Channel"  
To encourage Fleet operators to  
Install these safety devices



# DEMO TRUCK Ready

## Built-In Cargo Securing Container Truck



Chemical / Lubricant companies can connect with us

To understand benefits of Cargo Securing

Connect with us on :

[care@Suregroup.in](mailto:care@Suregroup.in) or

[ram@suregroup.in](mailto:ram@suregroup.in)

Call : +91-9971 25 44 33 (RAM)





**Thank you  
for your Time**