# Purity and Safety:

## How to Select the Right Container System for Safe, Clean Chemical Delivery

Increasingly stringent material purity requirements for semiconductor fabrication are placing an immense burden on chemical suppliers. Chemicals are particularly susceptible to contamination introduced while in storage or during transport. Entegris storage/transport containers and connection systems are designed to ensure that your chemical arrives safely at the point of use as clean as when you packaged it.

## CONCERNS AFFECTING CHEMICAL INTEGRITY

### HUMAN ERROR

misconnecting chemicals and dispensing to process tools

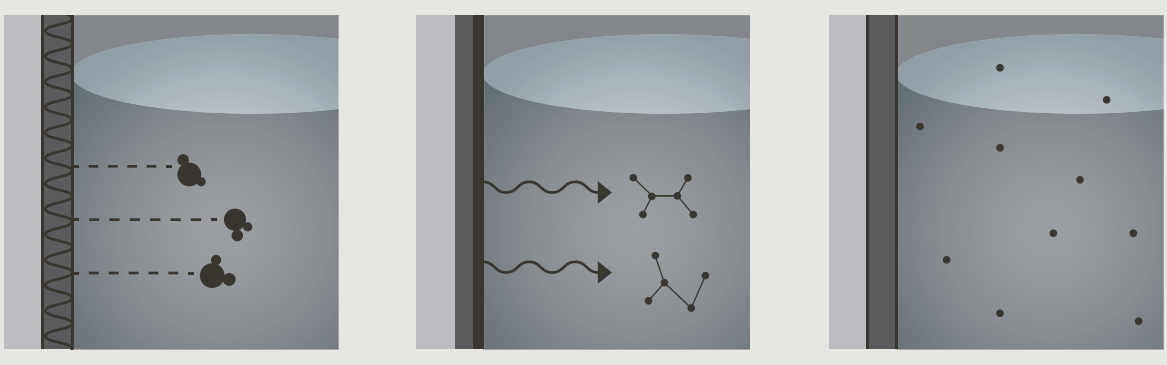
### SAFE DELIVERY

compromised by lack of container strength and design

### INCOMPATIBLE CONNECTIONS

from multiple vendors leading to spills and environmental contamination

### RESIN-BASED CONTAMINATION



**ORGANICS**

from improper resin sourcing

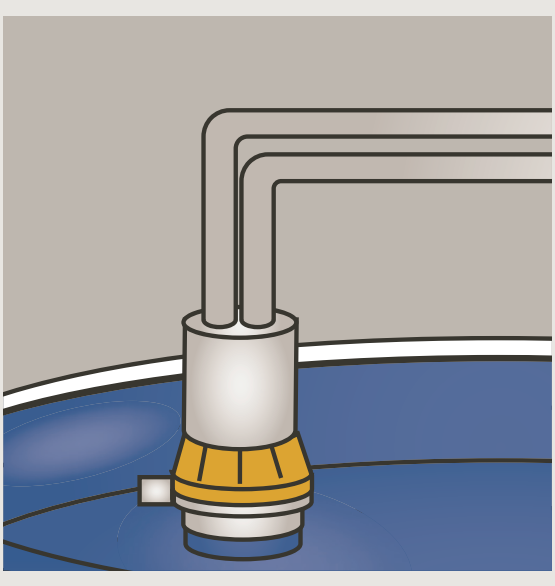
**METALLICS**

from the PE resin or the process environment

**PARTICLES**

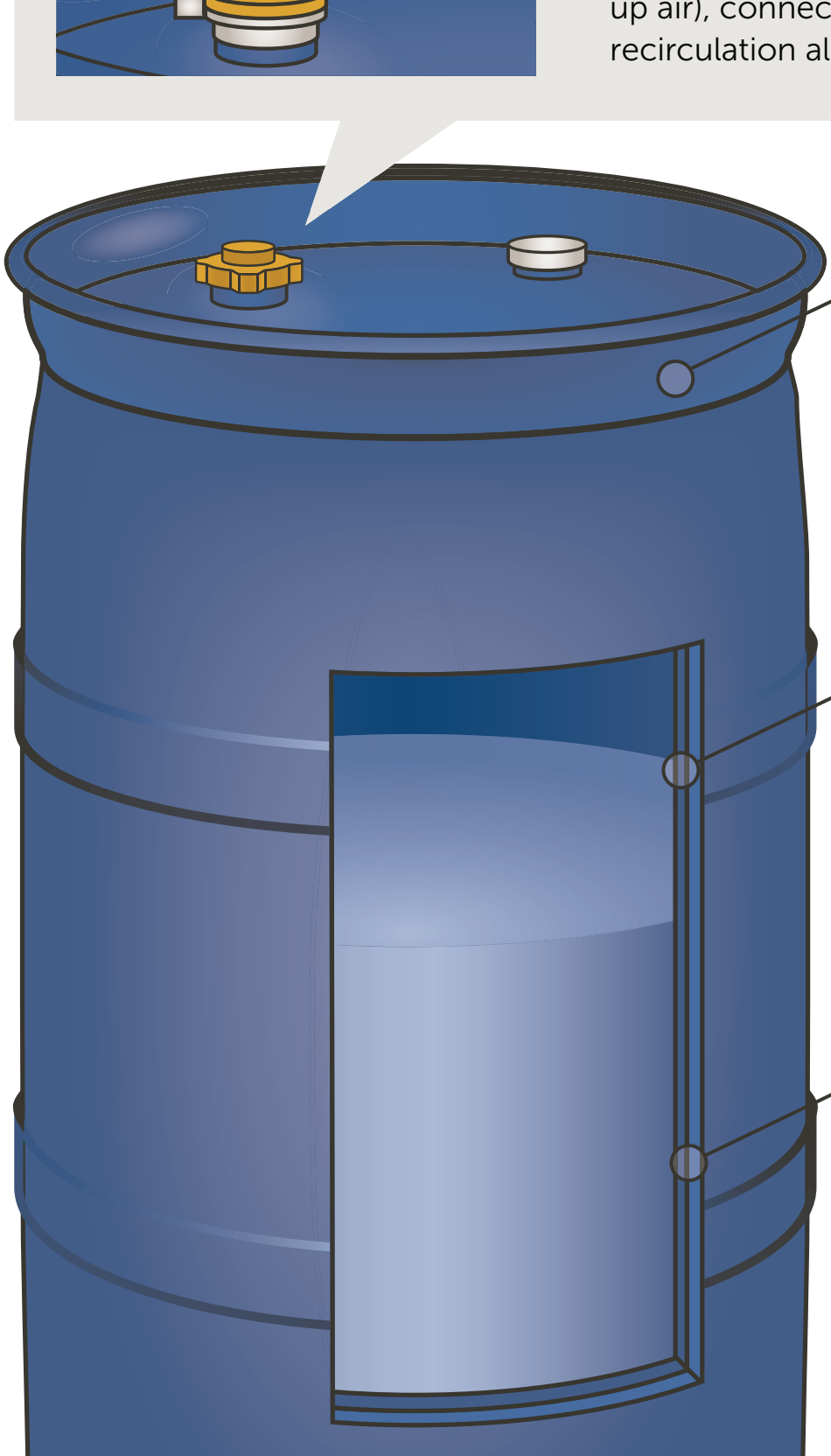
from the PE resin, improper process conditions, inadequately clean blow air used to make the container

## SOLUTIONS: ENTEGRIS CONTAINERS AND CONNECTION SYSTEMS



### CONNECTION SYSTEMS

- Dispense head is designed for precise fit with drum insert and is key coded to ensure proper chemistry is dispensed
- Drum insert is assembled in a Class 6 cleanroom, which assures clean service
- Point of use (POU), venting (make up air), connection verification, and recirculation all in one connection



### HIGH CHIME

High chime protects ports while stacked, maintaining connection integrity.

### WETTED INNER LAYER

A wetted inner layer of the purest HDPE resin available prevents contamination and ensures chemical integrity

### SOPHISTICATED MULTILAYER DESIGN

Sophisticated, multilayer design provides cleanliness and strength while ensuring durability

### DAILY TESTING

Daily particle and drop testing assures cleanliness and safety, unmatched in the industry

To ensure a consistent chemical supply that meets the highest purity requirements of the semiconductor industry, look to Entegris' end-to-end chemical handling, transport, and delivery system solutions that satisfy regulatory requirements for purity and safety.

## Learn More

www.entegris.com/ccd-drums



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