

What is CCD?

Charge-coupled device?

Community College of Denver?



Cafe Coffee Day?



CCD stands for...

Carbonyl

Chloride



Acid chlorides

E.g.

- Isononanoyl chloride
- Neodecanoyl chloride
- 2-Ethylhexanoyl chloride
- Pivaloyl chloride

Chloroformates

E.g.

- 2-Ethylhexyl chloroformate
- Isopropyl chloroformate

BASF's high-quality CCD portfolio

Organic peroxides to produce polymers

Pharmaceuticals

Essential for our daily life

Plant protection agents

Personal care



production sites









so sophisticated





Storage temperature

≤ 25°C

Transportation temperature

< 40°C

Storage duration

6 or 12 months



Months-long journey by marine vessels and long standby time in container yard

Imagine...

Exposed to the heat of the sun

Potential drum damage and bulging



NOT with BASF





What makes BASF's CCD drums safe?





Based on our long-standing safety knowledge



BASF

Carbon steel outer

- High physical stability
- More tolerance
- O Minimize risk of leakage



High Density Polyethylene (HDPE) inliner

O Minimize gas permeation in drum

O Minimize material penetration and emission risk

DOUBLE LAYERS DOUBLE SAFET

Common plastic drums

1-layer High Density Polyethylene (HDPE) drum



- ⊗ Crash → leakage
- Explosion & environmental risk
- S Exposure from permeated gas



The result?







- * Based on BASF's package tests, its CCD drums passed all tests without any leakage
- 1.Filled with Glycol water and dropped at a height of 2.4 meters and a temperature of -18°C with different drop positions, including diagonally on the bottom seam of the plastic receptacle, diagonally on the body in the area of one of the closures, and flat on the body in the area of one of the closures. Number of tests: 6
- 2.Filled with air under the pressure of 30 kPa for 5 minutes at 28°C. Number of samples: 3
- 3.Filled with water under the pressure of 300 kPa for 30 minutes, with three samples at 35°C and one sample at 18°C 4.Crash test at 6km/h with forkblade protectors



More than



years of safe and reliable

CCD production and supply

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