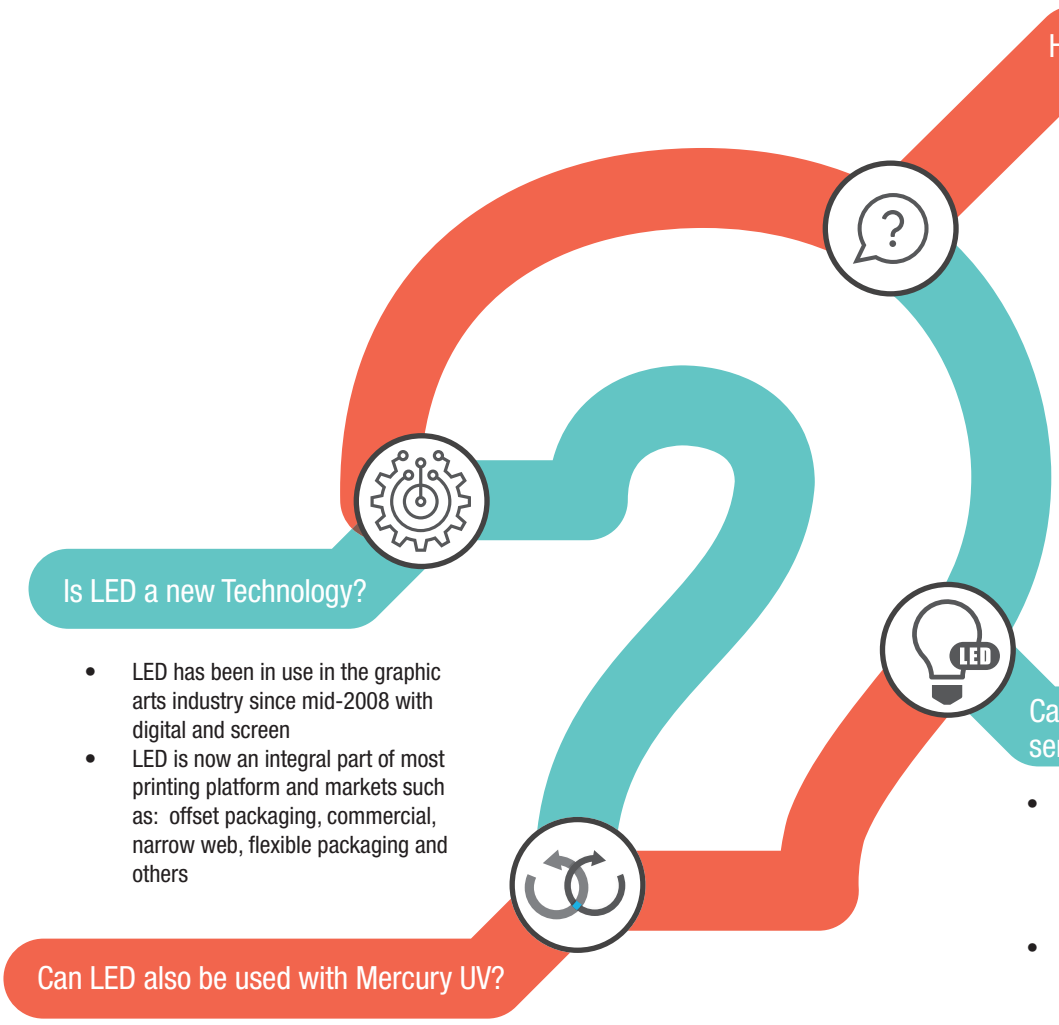
Reviewing the Common Misconceptions about LED

Common questions or misconceptions exist about LED. Sun Chemical has a unique offering with SolarWave™ and SunWave™ solutions for the narrow web and packaging market. This is further enhanced with our sustainable deinking offer; SolarWave CRCL DC system for UV and LED curing.



How is LED not UV Curing?

- UV inks cure inside the Ultraviolet spectrum of 200-400 nanometers
- LED cure targets a specific wavelength, generally 385 or 395 nanometers for most graphic arts printing
- LED generates less heat and ozone compared to mercury vapor UV - it still provides all the benefits of ultraviolet curing

Is LED a new Technology?

- LED has been in use in the graphic arts industry since mid-2008 with digital and screen
- LED is now an integral part of most printing platform and markets such as: offset packaging, commercial, narrow web, flexible packaging and others

Can LED be used for sensitive packaging?

- LED can offer some significant advantages over mercury UV by offering greater consistency and repeatability when used on food or other sensitive packaging, enabling low odor, low migration, and compliance
- LED offers consistent cure and less degradation of lamp power

Can LED also be used with Mercury UV?

- Is a "hybrid" system combining LED and Mercury UV necessary. Carefully formulated systems with suitably engineered LED curing will result in excellent LED and UV curing
- LED systems generally will give greater consistence in cure over time

Does LED offer no other sustainable benefits?

- LED offers significant energy savings, up to 60 percent according to some lamp suppliers
- Other benefits include: no use of mercury, limited or no use of reflectors, no ozone, no need for exhaust out of building, less heat and noise. This will also result in significantly lower maintenance cost

Additional Resources:

SolarWave | SunWave

Questions:

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