



Optilith™ 3094 Anti-Oxidant Solution

IMPORTANT CHARACTERISTICS:

Optilith™ 3094 is an 18% solution of a very potent anti-oxidant whose effectiveness is based on its solubility properties. This anti-skin solution was developed primarily for heatset inks where skin formation in the inks would be extremely detrimental due to the potential contamination of ink pumps and delivery pipes used to feed the ink fountains at the press.

Optilith 3094 is especially beneficial in heatset cover inks where metallic driers may be required to achieve satisfactory squalene resistance. **Optilith 3094** may be used effectively in these inks at levels from 0.05% up to 0.3% of the ink. The amount required will depend upon (1) the amount and types of driers; (2) the amount of oxidizable material (alkyd) present in the ink; (3) the length of time that the ink should be expected to remain free of skinning, consistent with the how the ink containers will be handled and stored.

Optilith 3094 may also be used beneficially in regular heatset inks that will be kept in Tote Bins. Although regular heatset inks are not readily prone to skinning, it can occur especially with Phthalo Blues. The potential problems and costs associated with contaminating a printer's pumping lines to multiple presses and with cleaning out Tote Bins, if skinning occurs, can make it worthwhile to incorporate from 0.5% to 1.0% of **Optilith 3094**.

Optilith 3094 may be used in sheetfed inks but should be held to a level around 0.5% or less. Levels above 0.5% in sheetfed inks can cause problems with slow through-drying when printing heavy coverage (over 250%) of process colors. **Optilith 3094**, at this level, will not prevent skinning indefinitely in sheetfed inks containing driers. But, it will function as a retardant to reduce the tendency to dry up on the press rollers when the press is sitting idle for several hours.

Optilith 3094 contains 1,4 Benzenediol, CAS No. 123-31-9, which is subject to the reporting requirements of Section 313 Sara Title III.

APPLICATIONS:

- Heatset inks
- Sheetfed inks (low levels)

BENEFITS:

- Prevents skin formation
- Assist metal driers to achieve squalene resistance
- Assist "stay-open" time on press

Updated 05/28/2015 JGC

Material Safety Data Sheets providing safety precautions that should be observed in handling and storing Hexion Specialty Chemical products are available upon request. You should obtain material safety information before handling any of these products. If an material are mentioned that are not Hexion Specialty Chemical products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

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