



## Ink Products: AltaPrint™ Resin

### Overview

Printing ink resins are a core business within Ingevity. For more than six decades, our company has served the graphic arts marketplace with innovations in technology to support our customers' business challenges. We have a diversified product portfolio of rosin-based derivatives that are consistently produced to meet quality requirements for varnish and ink makers throughout the world.

### Uses and applications

AltaPrint™ resin is a modified rosin resin, specially formulated for use in heatset and sheetfed inks for the packaging and commercial printing markets. This phenol- and formaldehyde-free rosin-based resin exhibits true viscoelastic behavior in heatset formulations without the use of aluminum gelling agents. AltaPrint resin gives excellent film hardness, gloss and provides excellent aliphatic tolerance in linseed oil cuts. AltaPrint resin can be used in offset varnishes as the primary or co-resin for overprint vehicles, cover inks and process colors.

### Physical/chemical properties

Physical state: Solid.

Color: Amber.

Odor: Aromatic.

### Health effects

The information contained in the table below may be useful for individuals who handle the concentrated resin substance, such as a manufacturer or transporter. Consumers are not likely to come into contact with the concentrated substance. The data, while verifiable, is not intended to be comprehensive nor replace the data found in the safety data sheet (SDS).

Effect Assessment	Result
Acute toxicity	Virtually nontoxic
Eye irritation	Slight or no irritation
Skin sensitization	Not classified as skin sensitizer

### Environmental effects

The information contained in the table below is intended to provide brief and general information of this product's environmental impact.

Effect Assessment	Result
Aquatic toxicity	No effects were observed at the highest loading rate tested in any of the acute toxicity studies for fish, Daphnia or algae.
Persistence and degradability	Potentially persistent (P), not readily biodegradable
Bioaccumulation potential	Low bioaccumulation potential



## Exposure and risk management recommendations

Based on present hazard assessment, Ingevity's AltaPrint™ resin products are not considered to be hazardous materials according to REACH Regulation. However, they are considered hazardous materials by the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, and classified as combustible dusts. This type of product may form combustible dust concentrations in air.

To prevent combustible dust explosion, OSHA recommends manufacturers do the following:

Implement a hazardous dust inspection, testing, housekeeping and control program.

Use proper dust collection systems.

Regularly inspect for dust residues in open and hidden areas.

If ignition sources are present, use cleaning methods that do not generate dust clouds.

Control smoking, open flames and sparks, including mechanical sparks and friction.

## Conclusion

Under conditions of normal use by qualified personnel, AltaPrint™ resin is not expected to pose a significant risk to human health or the environment.