



## Ink Products: Jonrez® RP 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

Jonrez® RP resin is a high molecular weight phenolic modified rosin resin with excellent compatibility with ink oil, alkyds and vegetable oils. Its design promotes good wetting characteristics during dry grinding and provides stable ink/water emulsion during the lithographic printing process.

### 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 in 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	Low irritation to eyes
Skin sensitization	Not sensitizing

### Environmental effects

The information contained in the table below is intended to provide brief and general information of this substance's environmental impact. The data contained in this section explain the relative effect of the concentrated substance on the environment, as defined by certain tests.

Effect Assessment	Result
Aquatic toxicity	Harmful to aquatic life, with long-lasting effects
Persistence and degradability	Not readily biodegradable

### Exposure and risk management recommendations

**Workplace exposure:** Exposure can occur either in a manufacturing facility or in the various industrial or manufacturing facilities that use the product. Those working with the product in manufacturing operations could be exposed during maintenance, sampling, testing, or other procedures. Each manufacturing facility should have a thorough training program for employees and appropriate work processes, as well as safety equipment in place to limit unnecessary exposure. Safety showers and eye-wash stations should be accessible nearby. Workers



should use engineering controls and personal protective equipment (PPE) that excludes exposure to the product where possible.

Additionally, Ingevity's Jonrez® RP resin is classified as combustible dust. 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

**Consumer exposure:** This product may cause eye, skin, or respiratory irritation. Avoid direct contact with skin and eyes, wear protective gloves and eye or face protection. If there is any direct contact on skin, wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs, get medical attention. If in eyes, rinse cautiously with water for several minutes. If contact lenses are worn, they should be removed if possible, and rinsing continued. If eye irritation persists, get medical attention.

**Environmental exposure:** This product showed low effects in acute ecotoxicity at the highest loading rate tested in any of the acute toxicity studies for fish, Daphnia or algae. Therefore, disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. This product also has low solubility and is not readily biodegradable, it may cause long-term adverse effects in the aquatic environment. Therefore, releasing this product into the environment should be avoided. This product and its container must be disposed as hazardous waste.

## Conclusion

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