



Adhesive Products: Rosin Ester

Overview

Ingevity is a leading global supplier of bio-based tackifying resins for adhesives. Our products have broad compatibility with multiple polymers commonly used in rigid packaging, hygiene, tapes, labels and construction adhesives. Our manufacturing capabilities, logistic services and regional technical support allow us to create innovative adhesive solutions for a broad array of applications.

Uses and applications

Our rosin ester products are light-colored tackifiers with broad compatibility across multiple polymer systems; they are commonly used in hot melt and solvent based systems.

Physical/chemical properties

Physical state: Solid.
Color: Amber.
Odor: Bland.

Health effects

The information contained in the table below may be useful for individuals who handle the concentrated rosin ester 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 rosin ester 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, Ingevity's rosin ester products are not expected to pose a significant risk to human health or the environment.