RonJohn®

Effect of RonJohn on Halthane 88/Asilamine polyurethane coating.

RonJohn®, a urethane and coating remover, was developed to replace hazardous or flammable solvents such as methylene chloride, acetone, toluene, xylene and methanol. RonJohn not only improves safety but also is more effective than many other solvents used to strip paint and remove adhesives, producing a cleaner surface in less time.

CHEMICAL

Features

- Rapidly dissolves many polymers and urethane adhesives
- Removes epoxy polyamide coatings and powder coatings
- Removes char from thermally decomposed polymers
- Has a high flash point of 145°F, making it combustible, not flammable
- Evaporates slowly, allowing long residence time in contact with material being stripped
- Has a health, fire, reactivity rating of 2,2,0, the same rating as kerosene

Benefits

- Reduces health risks — eliminates CERCLA, RCRA and HAP hazards
- Improves safety — combustible, not flammable
- Saves time — rapidly softens, gels, and dissolves polyurethanes
- Lowers disposal costs — does not require hazardous material disposal
- Improves removal results — cleaner, more complete removal of coatings

Applications

- Paint stripping
- Adhesive, powder coat and wax buildup removal
- Urethane-foam potting machine cleaning
- Refurbishment and restoration
- Hobbyists
- Industrial cleaning

Patents & Awards

- U.S. Patent No. 7,767,637
- 2011 R&D 100 Award
- Technology Ventures Corporation–featured technology, 2011

Inventors

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Technology Readiness Level (1–9)

Actual application of the technology in its final form and in Y-12 production use.

Partnering Opportunities

Y-12 is seeking an industry partner to fully commercialize this technology.

If you would like more information, please contact the Office of Technology Commercialization and Partnerships:
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