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Renewable polyamides via thiol-ene 'click' chemistry and long-chain aliphatic segments

Phan Huy Nguyen, Steven Spoljaric, Jukka Seppälä



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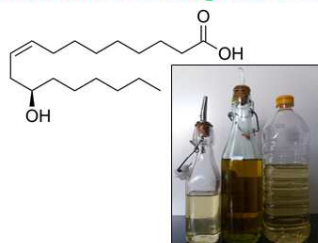
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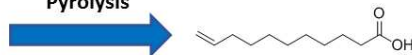
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## Ricinoleic acid from vegetable oil



## Fatty acid derivatives

Pyrolysis



## Sulphur-containing, long-chain diacids



Diamine

## Renewable, bio-based, sulphur-containing long-chain polyamide

- Superior impact resistance
- Enhanced ductility and elongation
- Very-low moisture absorption
- Excellent chemical/solvent stability
- Easier processability via lower  $T_m$  and suitable rheological profile

Thiol-ene 'click' chemistry



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