

RECYCLABILITY

SUSTAINABILITY

## Solvents for Plastics Recycling

### Why is the role of solvents essential?

#### Solvents: Key to Efficient and Sustainable Plastic Recycling

Solvents play an indispensable role in plastic recycling by enabling the selective dissolution and separation of various types of plastics. This process allows for the precise removal of impurities, colors, and odors, ensuring that only pure plastics meet the highest quality standards re-enter the recycling loop. This purification step is crucial, as contaminants can compromise the usability of recycled plastics. In the recycling process, solvents facilitate a multi-stage operation where plastics are immersed in specialized solvent baths. Here, specific solvents selectively dissolve the target materials, allowing for efficient separation and purification. After this process, the solvents are recovered and reused in subsequent recycling cycles. This closed-loop system not only minimizes solvent waste but also promotes resource efficiency and significantly reduces environmental impact. Through their application, solvents enhance the sustainability of plastic recycling, support circular economy goals, and contribute to the reduction of plastic waste in a highly efficient and environmentally responsible manner.



#### SPOT ON

Light aliphatic hydrocarbons:

Category 5: C5 Aliphatics, Category 6: C6 Aliphatics,

Category 7: C7-9 Aliphatics



INDUSTRIAL USE

### Benefit Green Deal

Longer lasting products that can be repaired, recycled and re-used

