

## **BIOCHEM show case**

# **Provide a safer, bio based, chelating agent**

## **Problem**

Chelating agents are used in many of our everyday items such as processing photos, cleaning detergents and preserving food. These typically originated from petroleum feedstock.

## **Technical solution**

AkzoNobel's Dissolvine GL (L-glutamic acid N,N-diacetic acid, tetra sodium salt; GLDA) is a strong chelate that is safe and readily biodegradable as an alternative for phosphates, NTA and EDTA, especially in cleaning applications. The majority of the molecule originates from a natural, renewable source (86% bio based content).

The product is based on a food-approved natural amino acid salt (monosodium L-glutamate or MSG) and is manufactured in a very efficient process with only ammonia as by-product, which is collected and re-used as a raw material for other products and industrial processes.

## **Benefits**

- **Stable over a wider range of temperatures and pH values than other APCs (retains its high chelating value at elevated temperatures more than other chelating agents)**
- **Good water solubility, so faster performance**
- **Inert to most chemicals wide range of operating conditions**
- **Readily biodegradable in the Closed Bottle Test (OECD 301D)**
- **Available in liquid and solid forms**

Partnerships for better  
**innovation support**



**Eco-Innovation**  
**BIOCHEM**

- **Low eco-toxicity footprint significantly less than traditional alternatives**

## **Further information**

**AzkoNobel website Dissolvine GL**

**<http://www.akzonobel.com/dissolvine/>**