

# RECP Best Practices Catalogue

## *Liming With Hair Recovery*

*Developed within the framework of MED TEST II*



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is  
funded by the European Union

# Best Practice - Liming With Hair Recovery

<b>SECTOR:</b>	<b>Leather</b>
<b>Branch:</b>	Tanning and dressing of leather
<b>CATEGORY</b>	Process control or modification
<b>APPLICABILITY</b>	Process

<b>COMPANY SIZE</b>	<b>35 Full-time Employees</b>
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## Description of the Problem (Base Scenario):

It is necessary to reduce the use of sulphide and sulphur-based components because of the pollution problem due to waste hair from hides. Products are currently being used to remove hair from the hides and eliminate waste without solubilising them, to recover them intact and ensure they are disposed of in landfills. This waste can be filtered and recovered, and reused as by-products; in the production of fertilisers and for agricultural applications.

## Description of the Solution:

it is recommended to use liming chemicals, which remove hair from the skin and waste without solubilising, in order to recover them intact and dispose of them in landfills. This waste can be filtered and recovered, and reused as by-products; in the production of fertilisers and for agricultural applications.



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## Economic Gains

Reduction of the consumption of lime and sulphide by 20%, which corresponds to economic gains of € 8,000.

## Environmental Gains

Minimising pollution of:

COD: Estimated at (-20%) = 17 kg/t

BOD: Estimated at (-10%) = 3.35 kg/t

TSS: Estimated at (-30%) = 21.6 kg/t

## Health and Safety Impact

Fewer operator accidents caused by lime and sulphides.



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<b>Capital Investments &amp; Financial Indicators</b>	<ul style="list-style-type: none"><li>- Investment in new chemical products, small Fuller testing and product testing in laboratory: € 2,000</li><li>- Acquisition of a Filtering System: € 4,000</li><li>- Total: € 6,000</li><li>- Time for Return on Investment &lt; 1 year</li></ul>
<b>Supplier Information</b>	Local/imported
<b>Other Aspects</b>	none
<b>Implementation</b>	The company has already tried this process.



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