



# BATREC

Swiss quality recycling solutions

## Mercury Stabilisation

# BATREC, part of SARPI-VEOLIA

BATREC is a leading specialist in the treatment and recycling of hazardous wastes. We are part of SARP Industries, a member of the VEOLIA group, the European leader in our field.

BATREC sets a benchmark in the world of treating difficult, hazardous wastes, particularly those containing mercury.

We treat and recycle batteries, various mercury contaminated wastes, liquid elemental mercury and absorbent & catalysts containing mercury for clients globally. We also have a world class activated carbon reactivation plant.



**Wimmis**



**1991**

FOUNDATION



ISO 9001  
ISO 14001  
ISO 45001

CERTIFICATIONS



**Liquid Mercury Stabilisation**  
**Activated Carbon reactivation**  
**Mercury wastes treatment**  
**Mercury absorbents recycling**  
**Battery recycling**

**5 CORE SPECIALITIES**

# Mercury Stabilisation

*One of BATREC's core expertises*



In the era of clean technology and corporate responsibility, mercury presents a huge challenge to industries worldwide.

Batrec has developed a solution to stabilise metallic mercury for safe and sustainable disposal.

The Batrec solution provides a complete service for the stabilisation of the mercury, including transport, supply of certified containers, transfrontier shipment formalities and traceability reports.

*BATREC, a pioneer in stabilisation of liquid mercury*

By stabilising mercury and safely disposing of the mercury sulphide in a salt mine, BATREC contributes to the progressive removal of mercury from the environment.

## THE MINAMATA CONVENTION

is an international treaty developed with the backing of the United Nations Environment Program to protect human health and the environment from the harmful effects of mercury.

- 150 countries agreed on:
- the reduction and phase out of mercury use in a number of products and processes.
  - implementing control measures on environmental emissions.

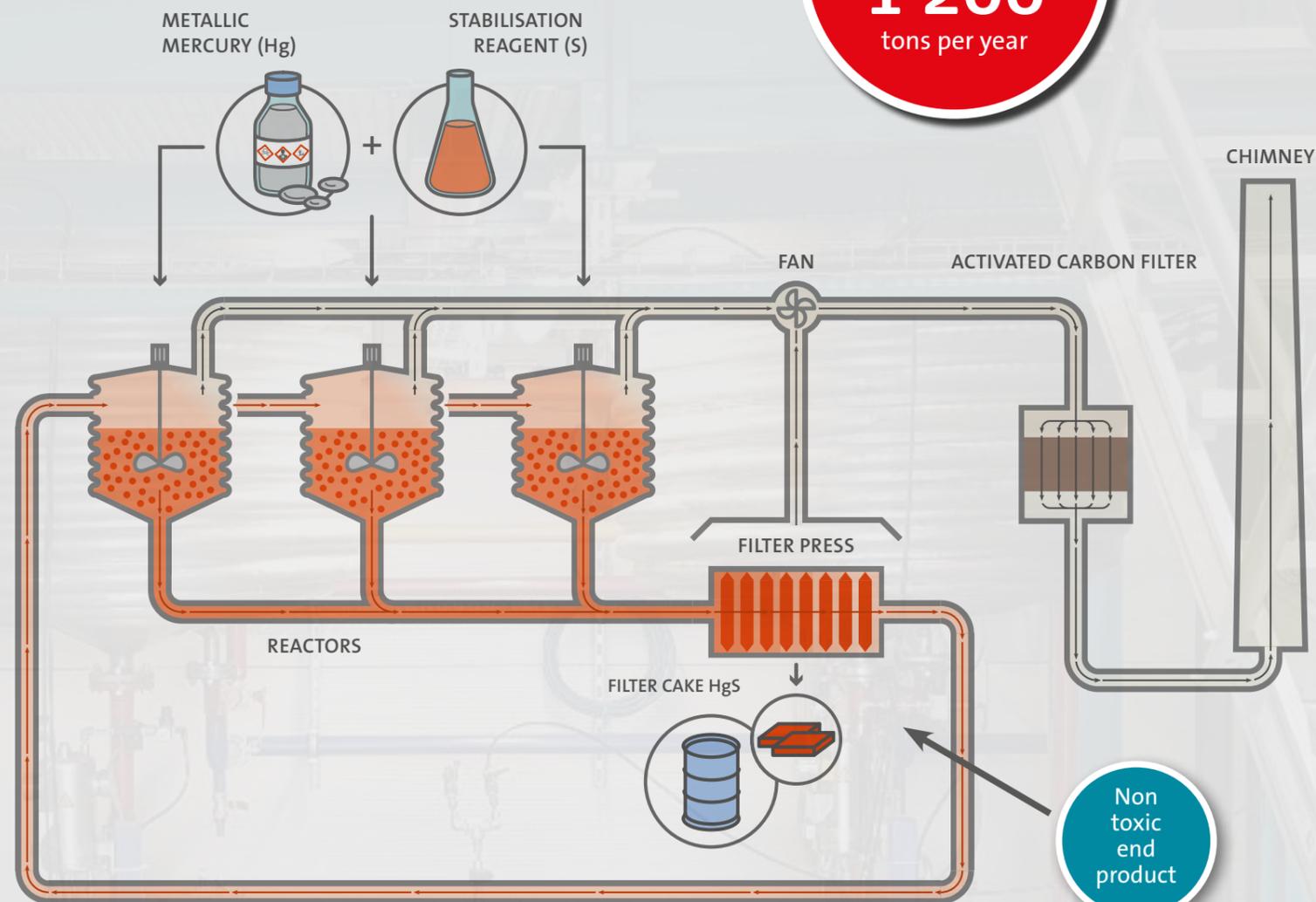
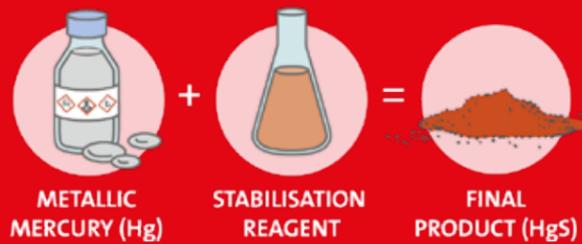


# Stabilisation process

BATREC has developed a treatment process to stabilise liquid mercury into a non-toxic compound, mercury sulphide (HgS) which is safely disposed of in a salt mine.

**TREATMENT CAPACITY**  
**1'200**  
tons per year

## STABILISATION PROCESS



Non toxic end product

## PROCESS CHARACTERISTICS

- ✓ No risk of Hg vapour release
- ✓ Wet process not prone to gaseous mercury emissions
- ✓ Simple reactants
- ✓ Stabilisation solution is regenerated and reused (closed loop)



FINAL PRODUCT (HgS)

# Safe and secure mercury management

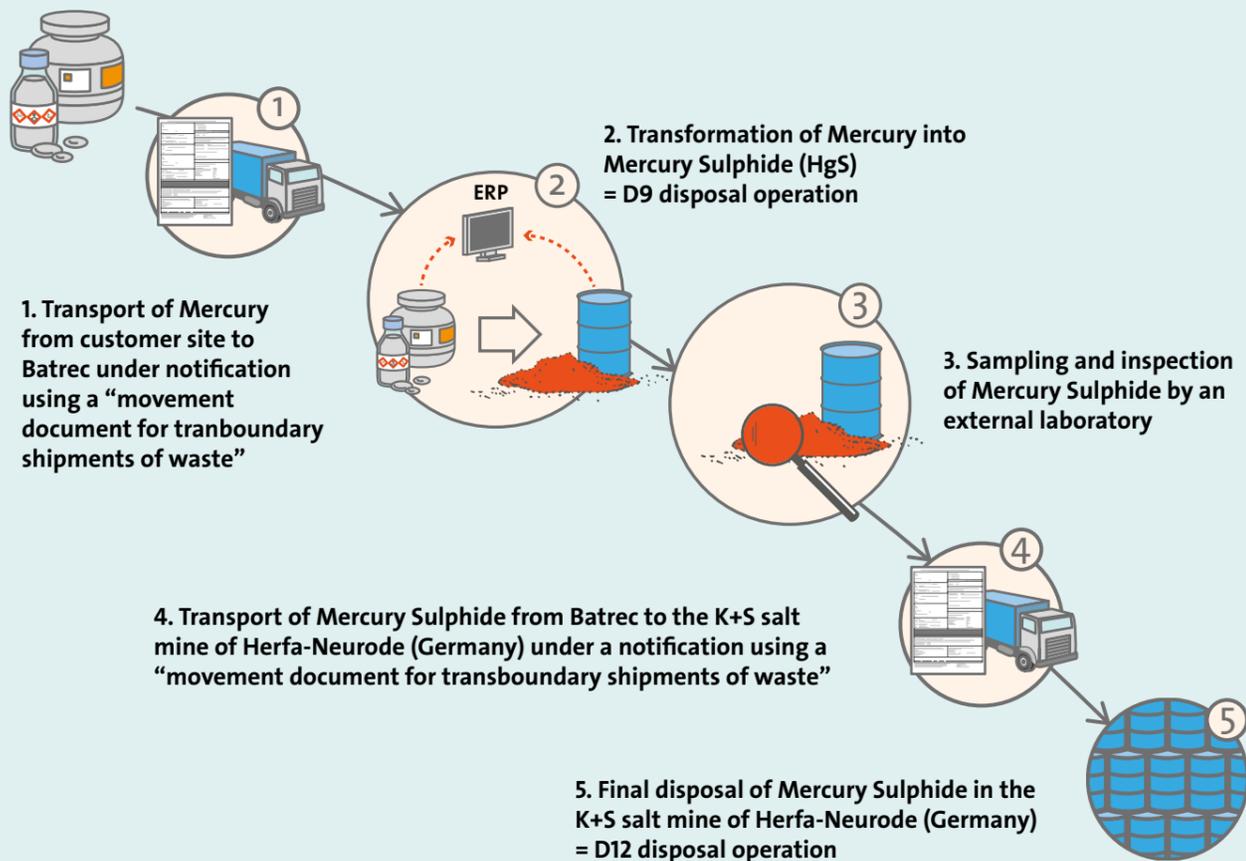
## Safe long-term storage to protect the environment

Following stabilisation, the mercury sulphide is secured into drums and sent for final disposal **in a salt mine in Germany**.

Following strict acceptance criteria the HgS is deposited at depths of 500 to 800 meters where it is isolated by the natural strata (salt, clay...) and man-made barriers (brick walls).



## Traceability chain for the stabilisation of Mercury



## A COMPLETE PACKAGE

supporting you throughout the whole disposal process of your liquid mercury

1



You have liquid mercury for disposal.

2



BATREC stabilizes the liquid mercury by transforming it into mercury sulphide.

3



BATREC transfers the mercury sulphide into certified packaging.



BATREC can provide you with certified packing and prepare the transfrontier shipment dossier with you.



Following the stabilisation, BATREC undertakes the sampling and analysis of the mercury sulphide.



BATREC transports the mercury sulphide to the salt mine for permanent storage.



BATREC can organise the transport from your site to our treatment plant in Switzerland.



BATREC provides you with a complete mass balance and traceability report of the mercury stabilisation project.

**For more information,  
don't hesitate to contact our team**



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**Stabilise your liquid mercury at BATREC  
whilst respecting the environment and in strict  
compliance with international regulations.**