



**HELPING FOUNDRIES – PROTECTING THE ENVIRONMENT**  
**AMINE RECLAMATION SERVICES**



## FOUNDRY SERVICES IN SAFE HANDS

Being both a technology and service-oriented company, we actively look to take on responsibility. For our customers – by making the very most of our comprehensive know-how to provide you with top quality recycling systems and services. And for the environment – by developing and deploying resource-friendly systems to create sustainable solutions for specific problems. TRG is well-known for its exemplary performance and safety

levels: we expect our operations to be run to the highest quality, health & safety and environmental standards – at all times and across the whole of our business. Which is why our systems are regularly audited by independent external specialists and documented with certificates. So we can offer you services that really do add value to your business.

## AMINE RECOVERY FROM THE VERY START OVER 20 SUCCESSFUL YEARS OF HELPING OUR CUSTOMERS

TRG has been delivering its services to national and international industrial companies for more than 20 years now.

It all began with our wish to optimise recycling and recovery systems and this is something we continue to do today – always paying attention to detail and always

on the look-out for innovations. After we had successfully developed the technological basis for regenerating aliphatic amines, we built a chemical facility to enable us to use our own patented amine recycling process. Within no time at all, we had become one of the leading companies – a status we still enjoy today.

## OUR CORE BUSINESS: RECOVERING AMINES USING OUR KNOW-HOW TO HELP OUR CUSTOMERS

Recycling expertise for industrial businesses: TRG serves its customers from a variety of industrial sectors across Europe – offering them complex processes to

recover valuable substances. We are now one of the leading companies on the continent, especially in the field of amine reclamation.





## SUSTAINABLE AMINE RECOVERY PLUS RESOURCE CONSERVATION



Thanks to our innovative processes, our technology and our seamless analytical monitoring systems, we can guarantee that will meet all amine product specifications and quality requirements needed by foundries for their PU Cold Box processes.

This means our products can be used instead of synthetic amines. Which is, of course, good for our customers and good for the environment as this helps to conserve natural resources.

### Our full range of foundry services includes

- Delivering scrubber solutions (sulphuric acid) for exhaust air scrubber systems
- Recycling amine scrubber solutions produced by the air cleaning systems connected to the PU Cold Box process (closing the amine life cycle)
- Providing amine scrubber services: advice, analysis feedback, process optimisation, cleaning
- Ensuring all waste is managed safely
- Optimising logistics processes: transport, drawing up all relevant documents, supplying containers
- Simplifying waste laws: voluntary acceptance of returned goods as per Section 26 of the German Circular Economy Law; issuing proof of proper waste management (so-called "privileged procedure")
- Notification procedure in acc. with Regulation (EC) No 1013/2006 on shipments of waste

## PRODUCTS & SERVICES BESPOKE SOLUTIONS FOR BESPOKE REQUIREMENTS

Right from the very start, our work has focused on building strong business relationships with our customers and on meeting their specific wishes and needs. We do this so that you can concentrate on your core business. Which is why foundries across Germany and other European countries have been working with us for many years now. They appreciate the ecologically responsible processes we use to recycle amine scrubber solutions produced by exhaust air cleaning systems. We support

you and provide you with advice on all matters regarding the recycling of scrubber solutions – no matter whether it has to do with the relevant waste laws, logistics or process optimisation.

Thanks to our many years of experience and our in-depth know-how of the industry, we are able to pass on to you all of the benefits of our patented amine recovery process.





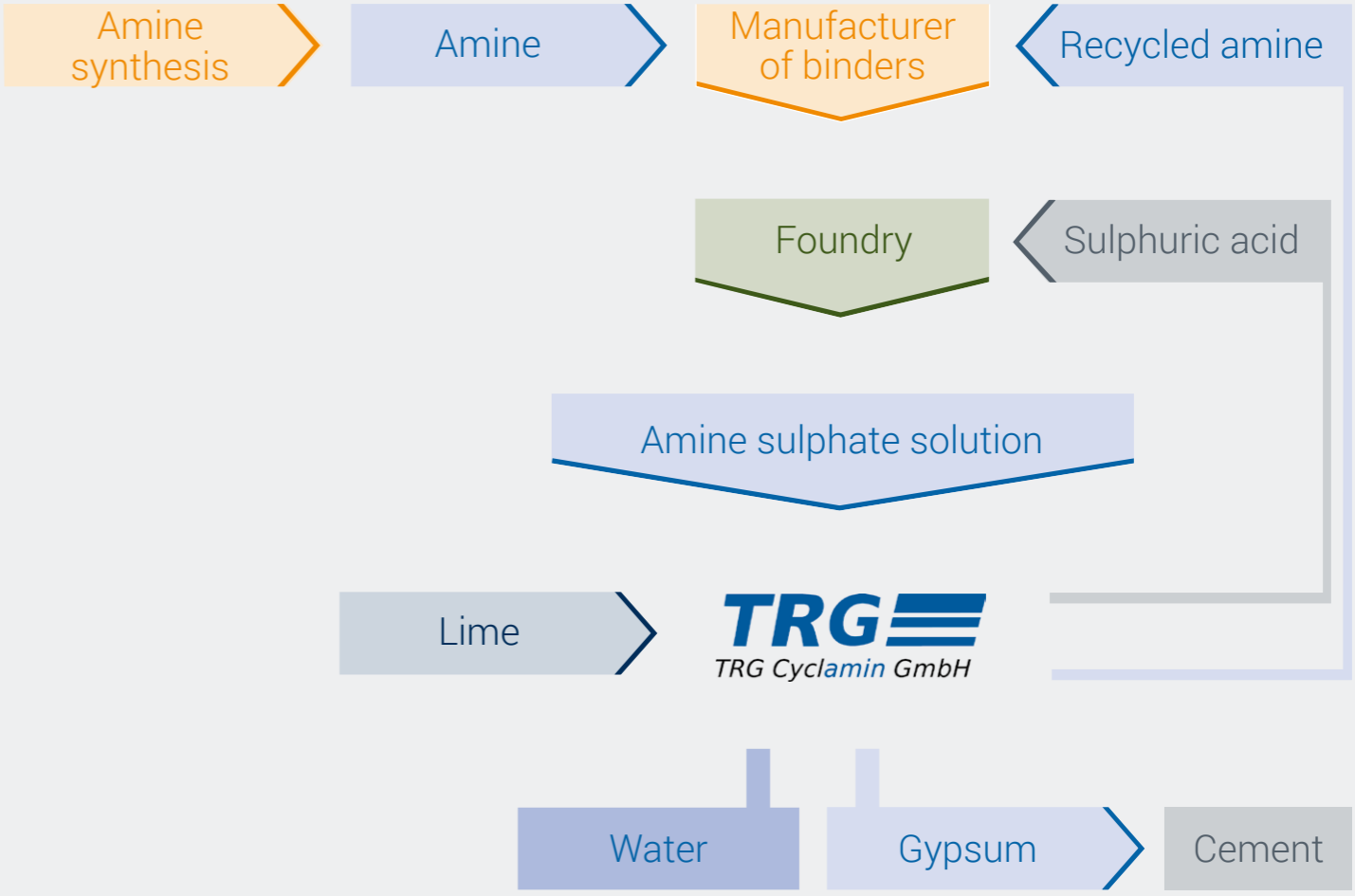
# OUR AMINE RECOVERY PROCESS EVERYTHING FROM JUST ONE COMPANY

The method deployed by TRG to recover amines used in the PU Cold Box process is unique and was developed and patented by the company itself. The special feature of this process: the drying and rectification steps used for solid/liquid, multi-component mixtures have been combined into one single stage.

The only by-products generated by this process are water, all of which is used as process water, and gypsum, which can be passed on to the construction sector. We ourselves are able to provide our customers with all the

services needed here including all logistics and documentation: from the delivery of the washing solutions (sulphuric acid) and the provision of empty containers, to the collection of the amine scrubber solutions (amine sulphate), all the way through to drawing up all waste management documents.

We also manage waste from abroad. Notification can be extended for a period of up to three years here thanks to our EMAS accreditation.

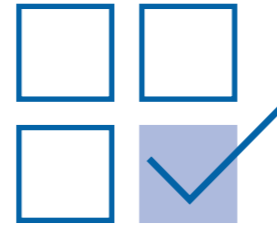


## QUALITY, HEALTH, SAFETY & ENVIRONMENT PLAYING IT SAFE

We supply many different customers from a wide range of markets all around the world. This means, of course, that we have to meet a whole variety of requirements. Which is why thinking and acting sustainably is at the very core of our production activities. Guaranteeing our staff and facilities remain safe is just as important as ensuring our processes deliver high quality products

and protect the environment. Our operations have, therefore, been accredited and validated in line with ISO 9001, ISO 14001 and EMAS. In addition, we have developed stringent quality, health, safety and environmental standards which are all at the very top of our list of priorities. These are regularly audited by independent external specialists.

## RESPONSIBILITY TOWARDS THE ENVIRONMENT FOR A SUSTAINABLE FUTURE



We are fully committed to fulfilling our ecological responsibilities. Which is why we are not only mindful of the immediate effect our on-site operations could have on the environment but also – as far as practicable – of the indirect environmental impact of our products. It is our goal, therefore, to prevent or minimise the impact our operations and products may have – including taking measures that go beyond those stipulated by law. At the same time, we wish to fulfil all our customers' wishes and requirements, support them with a wide range of services and provide them with economic and environmental benefits.

We strongly believe, therefore, that processes and systems can only enjoy long-term success on the market if they are environmentally sound. And so one of our first steps was to set the course for the future with our amine recovery process. TRG is now well-known for the reliable recycling and recovery services it delivers to the foundry sector. Thanks to our many years of experience and our in-depth know-how of the industry, we are able

to pass on to you all of the benefits of our patented amine recovery process.



fiers and that facts and figures about our company and our services are published and updated on an annual basis.

Being an EMAS organisation, we are committed to delivering a sustainable environmental performance that goes beyond that required by international standards. This means that our business is not only examined by national auditors but also by accredited environmental verifiers and that facts and figures about our company and our services are published and updated on an annual basis.



## WHAT WE BELIEVE IN TRANSPARENCY IS AN INTEGRAL PART OF OUR BUSINESS

- 1  We meet our customers' product quality requirements and deliver to schedule.
- 2  We observe and comply with all relevant rules and regulations as well as with any requirements specified by our authorities. In cases of doubt, we consult with the authorities responsible and with independent experts.
- 3  We collaborate closely with the authorities to develop and update measures and processes to ensure that the impact of any emissions resulting from an accident, malfunction or error is kept to an absolute minimum.
- 4  We plan our production activities with due care and attention, carry out quality controls before, during and after production processes and regularly monitor our production facilities to ensure that our products always fulfil our quality standards and that we comply with all statutory and in-house environmental regulations.
- 5  We use energy and raw materials sparingly and are continuously working on reducing our consumption of energy and raw materials. We make every effort to minimise our emissions into the air, our volumes of wastewater and the amount of waste we generate. We use state-of-the-art technology to achieve this if this is necessary and economically practicable.
- 6  The environmental impact and environmental compatibility of each new product and process are assessed in advance. We also take market requirements into account when delivering chemical products.
- 7  We take all measures needed to minimise the risks caused by our activities to the health, or otherwise, of our employees, neighbours and the general public. We ensure that emissions are kept to a minimum – also in the case of an accident – by providing our staff with training courses and clear working instructions as well as by deploying safety and pollution control equipment.
- 8  We continuously check that our business activities conform to environmental policies by carrying out regular in-house audits and holding staff meetings and face-to-face discussions. Should any deviations be discovered, then these are recorded and rectified.
- 9  We involve our employees, as partners, in the implementation of our quality and environmental policies. They are encouraged to make the most of their expertise and sense of responsibility so that they can play an active role in safeguarding the quality of our products and continuously improving our environmental performance.
- 10  We communicate openly and objectively with the public, our customers, our suppliers and the authorities.
- 11  We observe and comply with the VCI's Responsible Care Guidelines (VCI = association of the German chemical industry).

## YOUR WASTE LAW OBLIGATIONS WE CAN HELP OUT HERE AS WELL

Businesses are obliged to meet the strict rules and regulations on managing and recycling waste at all times. We are here to provide you with help and advice whenever you need it.

In Germany, this subject is covered in the German Circular Economy Law [KrWG] which has a number of additional ordinances regulating which and how waste management records should be kept, transport permits etc. The European Union has drawn up a complex set of guidelines, Regulation (EC) No 1013/2006, to manage the cross-border shipment of waste.

As per Section 26 of the German Circular Economy Law (voluntary acceptance of returned goods), we do not have to furnish proof when we accept amine scrubber solutions (ASN 060101) from businesses in Germany.

Having been granted exemption in line with Section 7 of the Ordinance on Waste Recovery and Disposal Records [NachwV], we can also issue proof of proper waste management (so-called "privileged procedure") for all waste codes listed in our latest waste catalogue.

In addition, our EMAS accreditation and corresponding pre-consent (as per Article 14 of Regulation (EC) No 1013/2006) gives us a notification period of up to three years when recycling waste from abroad.

We are very happy to help you put together any applications that you are obliged to submit and provide you with advice on the certificates and information you must furnish. We do everything possible to keep your work to a minimum – so that you can concentrate on your core business.



