

# Responsible Care objectives

Bayer has established objectives for continuous improvement in all areas of Responsible Care for the coming years too. The following goals have been set for the Bayer Group worldwide:

- A (second) self-evaluation of HSE management systems is to be implemented at all sites by 2002, that evaluation to include an action plan for continuous improvement until the next self-evaluation/audit.
- All relevant Bayer production sites are to be evaluated by 2004 by qualified outside auditors.
- To reduce emissions of climate-relevant gases, Bayer AG is committed to a 53 percent cut in emissions by 2010 (compared with the base year 1990). Additionally, efforts are in place to identify further potential for reductions throughout the Group.
- By continuing to pursue a systematic safety management program, the aim is to achieve a further reduction in recordable incidents by 2004.
- Creating and maintaining a safe and healthy work environment at all of our facilities around the world is the right thing to do for our employees, for the communities in which we do business and for the environment. Through Bayer's Continuous Improvement Process, we aim to reduce work-related injuries and illnesses by 50 percent by 2004.
- By continuing/further developing cooperation with contractors in the area of occupational safety at Group sites, the aim is to achieve comparable MAQ levels for these external companies.
- Bayer is a recognized leader in international High Production Volume (HPV) initiatives. As part of an International Council of Chemical Associations (ICCA) program, Bayer is establishing harmonized, internationally recognized data records with a degree of tests and assessment (published on the Internet as part of the OECD Existing Chemicals Program) for around 70 HPV products.



- The Eco-Check is to be further established as an instrument for quality-based portfolio management as part of sustainable corporate development and open dialog both internally and with the public.
- The strategic orientation of the business groups regarding sales products with critical toxicological and ecotoxicological properties should be subjected to systematic debate.
- The development of sustainable products is to be promoted systematically (see pages 94–95).
- The Group-wide system to identify and record transport incidents is to be expanded in order to ensure continuous improvement in the safe transport of our products.
- Consistent RC target management, the intensive exchange of best practices and support of RC coordinators at the affiliate companies are to be used to support the continuous improvement process.

Also in place is a range of specific site-related measures (e.g. investment). These measures result in clear improvements – not just locally, but also on a global basis in terms of the HSE balance sheet. The projects listed below are examples of particular relevance to the larger Bayer AG sites:

- Conversion of alkali-chloride electrolysis from a mercury-cell process to a membrane process should result in a clear reduction in mercury loads in wastewater from 75 kg/a (2000) to < 30 kg/a (equates to a 60 percent reduction). Mercury levels should be significantly cut by as early as 2004.
- By means of a second nitrification/denitrification stage at the wastewater treatment plant in Leverkusen, the aim is to achieve a 20 percent reduction in the nitrogen loads recorded at the plant outlet by 2004.
- Using various technical measures (especially at Antwerp and Leverkusen), and by means of outsourcing and relocating production to modern plants, emissions of acid gases are to be reduced further by 2004:  
Sulfur dioxide 6,600 → 5,000 t/a (–25 percent)  
Nitrogen oxides 11,200 → 7,500 t/a (–30 percent)
- Acrylonitrile, butadiene and styrene emissions are to be cut from 443 t/a (2000) to 250 t/a (2004), equating to a 44 percent reduction.
- Appropriate process improvements and production relocation measures at various Group sites will be used to reduce particulate emissions from 1,900 t/a (2000) to 1,500 t/a by 2004.

