Safety, Health, Environment

Concise Report for 1999



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SHE communication:
more intensive, more varied,
more up-to-date

SHE Report

Since 1992, the Henkel Group has been presenting its report on safety, health and the environment (SHE) at the same time as its Annual Report. The SHE Report appears in alternate years as a comprehensive version and a concise version. This is the first such concise report.

Responsibility for safety, health and the environment anchored in Henkel's Code of Conduct

"Henkel companies have a systematic approach to safety, health and environmental management in order to achieve continuous performance improvement. This is consistent with our commitment to contribute to sustainable development.

We manage these matters as any other critical business activity, set targets for improvement and measure, appraise and report on performance. In addition to complying with applicable laws, we should continuously strive to make improvements in the key areas of products, production, occupational safety, management systems, employee motivation and technology transfer."

From the Henkel Group Code of Conduct

Our cover

Maize is one of the raw materials used to produce alkyl polyglycosides (APG). These very mild surfactants were developed by Henkel and are made exclusively from vegetable raw materials (starch and fat).

APGs were so successful that Cognis is to be honored with the Wöhler Prize for resource-saving processes. This prize from the Association of German Chemists is endowed with DM 20,000 and will be presented at the ACHEMA trade fair at the end of May 2000.

Ecological leadership is based on operating profitably

Henkel assigns a high priority to safety, health and the environment (SHE). Our SHE Management System, which will have been introduced throughout the Group by 2001, helps us to achieve continuous improvement – with very positive results. This is confirmed, for instance, in a comparative study of 50 of the world's biggest chemical companies by an independent institute, which placed Henkel at the top of the list. Since the last such study in 1996, when we occupied second place, the Company has made above-average progress in all ten evaluated ecological fields.

At the same time, we are not a "green company" that focuses on maximizing environmental parameters while neglecting profits and shareholder value. We are committed to sustainable development, placing equal emphasis on ecological, economic and social aspects.

A critical public judges us on our success in achieving a balance between these three aspects. This is essential if we are to consolidate and improve our competitiveness in the now largely globalized markets, thus assuring commercial success and sufficient profits to secure the Company's future.

When accidents are analyzed, the links between ecological, economic and social factors become especially apparent. Accidents always involve suffering on the part of the people involved and considerable economic loss for the company. They are often associated with operational malfunctions and the resultant potential environmental risks and loss of production. We are therefore extending our systems for recording occupational accidents and setting a further reduction in accident figures as a Group objective for the coming years.



Dr. Hans-Dietrich Winkhaus

Dr. Wolfgang Gawrisch

Parallel to the named objectives, we will continue to reduce emissions. In the spirit of sustainable development, we also intend to place greater emphasis on applying scientific knowledge of the diversity of natural species and their complex community characteristics in new, intelligent product developments. We will be looking at both terrestrial and marine ecosystems.

We are convinced that this framework will enable us to continue to shape our products and production in a way which will ensure a balance between economy and ecology.

Dr. Hans-Dietrich Winkhaus President and Chief Executive Officer

Dr. Wolfgang Gawrisch Corporate Vice President Research/Technology

Henkel in brief: Company profile

Henkel is an internationally operating organization with a widely diversified product portfolio. The Company counts among the world's oldest and most successful brand manufacturers of household cleaners and body care products. Henkel's chemical and engineering products business is similarly characterized by decades of experience and leading market positions.

The Henkel Group has a presence in 75 countries. In 1999, sales of the Henkel Group amounted to 11.36 billion euro, of which 23 percent were generated in Germany and 77 percent outside Germany. The parent company is Henkel KGaA in Düsseldorf. Henkel is one of the German companies with the most business activities abroad.

Henkel has a total of 56,400 employees, 41,000 of them outside Germany, and 15,400 in Germany. Düsseldorf-Holthausen is the Group's biggest production site and Group headquarters.

Sales by business sector, 19	99	-
in million euro		
Adhesives	2,501	22%
Cosmetics/Toiletries	1,814	16%
O Detergents/Household Cleaners	2,574	23%
Industrial and Institutional		
Hygiene/Surface Technologies	1,769	15%
Chemical Products (Cognis)	2,605	23%
Other	98	1%
Total Sales	11,361	100%
0 1 1 1 1000		
Sales by region, 1999		
hu austanan lasatian		
by customer location		
by customer location in million euro		
	2,584	23%
in million euro	2,584 5,129	23% 45%
in million euro Germany		
in million euro Germany Rest of Europe	5,129	45%
in million euro Germany Rest of Europe North America	5,129 1,857	45% 16%
 in million euro Germany Rest of Europe North America Latin America 	5,129 1,857 540	45% 16% 5%
in million euro Germany Rest of Europe North America Latin America Africa	5,129 1,857 540 182	45% 16% 5% 2%

Five business sectors

Henkel's operations are organized in five business sectors: Adhesives, Cosmetics/Toiletries, Detergents/Household Cleaners, Industrial and Institutional Hygiene/Surface Technologies and Chemical Products (Cognis).

Henkel's Adhesives business sector operates worldwide, focusing on both brand-name and industrial products. In 1999, its do-it-yourself business was very successful in Great Britain.

The **Cosmetics/Toiletries** business sector took a major step forward in 1999 by entering the North American toiletries market. In Europe, Henkel is one of the leading suppliers. The core segments of this business sector are hair cosmetics, body care and, hair salon products.

Detergents/Household Cleaners made substantial progress last year, especially in Europe. Henkel is a pioneer in new technologies, as demonstrated by its introduction of detergent tabs in the international markets.

The Industrial and Institutional Hygiene/ Surface Technologies business sector now combines the systems operations of Henkel-Ecolab and Surface Technologies. Despite stagnating markets, Henkel has increased its market share by introducing innovative product systems and making significant improvements in existing products.

The **Chemical Products** business sector has become a legally independent entity under the company name, Cognis. Its core businesses are Oleochemicals, Care Chemicals and Organic Specialties.

SHE Management: uniform standards worldwide

Henkel has been introducing quality management systems that conform to the international ISO 9000 standards at its sites throughout the world for a number of years. The concept of "Henkel quality" goes further than this, however. It covers safety, health and environmental protection (SHE) in equal measure. The corresponding requirements are defined in 15 Henkel SHE Standards^{®*} and 55 associated Corporate SHE Guidelines. The Management Board has decided that they shall be implemented throughout the Group by the year 2001. The individual business sectors will carry out the process of implementation as their businesses dictate. The SHE officers at the Henkel sites integrate the SHE requirements into documented procedures and work instructions. In doing so, they take into account sitespecific factors (such as the range of products manufactured there and the applicable national and local regulatory requirements) and assign responsibility to specific employees.

Business Sectors

The Henkel Group's business activities are organized into five distinct sectors with worldwide responsibility for specific markets.

Adhesives

Consumer and Craftsmen Adhesives: Wallpaper pastes; ceiling, wall covering and tile adhesives; home decoration products; sealants; polyurethane foam fillers; cyanoacrylates; contact adhesives; wood glues; PVC pipe adhesives; flooring adhesives; building chemicals; coatings; roofing products; glue sticks, glue rollers, correction rollers, adhesive tapes.

Industrial and Packaging Adhesives: Packaging and labeling adhesives; shoe adhesives; cigarette adhesives; bookbinding adhesives; adhesives for the wood processing industry; laminating adhesives; adhesives for nonwovens; leather board.

Engineering Adhesives: Reactive adhesives; high-performance sealants; sealing systems; assembly adhesives.

Cosmetics/Toiletries

Toilet soaps; bath and shower products; deodorants; skin creams; skincare products; dental care and oral hygiene products; hair shampoos and conditioners; hair colorants; hair styling and permanent wave products; perfumes and fragrances; hair salon products.

Detergents/Household Cleaners

Heavy-duty detergents; specialty detergents; fabric softeners; dishwashing products; household cleaners; scouring agents; floor and carpet care products; bath and toilet cleaners; glass cleaners and lens wipes; furniture and kitchen care products; shoe care and laundry conditioning products; plant care products.

Industrial and Institutional Hygiene/ Surface Technologies

Henkel-Ecolab: Products, appliances, equipment, systems and services for cleaning, laundry care, maintenance, sanitizing and disinfecting applications at major industrial and institutional customers, in the food and beverage, pharmaceutical and cosmetics industries and in the agricultural sector.

Surface Technologies: Products and application systems for the chemical surface treatment of metals and metal substitutes; lubricants; cleaning products; corrosion inhibitors; products for conversion processing and for the treatment of cooling, process and waste water; process control and metering equipment; antifreeze agents and corrosion inhibitors for motor vehicle cooling systems; CFC substitutes for cleaning applications. Specialty products for the automotive industry: polyurethane adhesives and elastomer sealants, epoxide structural adhesives, PVC and polyacrylate plastisols, dispersion adhesives, hotmelt adhesives and corrosion protection waxes.

Chemical Products (Cognis)

Oleochemicals: Fatty acids; glycerine and fatty acid derivatives; fatty alcohols and their derivatives; food and feedstuff additives; natural-source vitamin E and carotenoids.

Care Chemicals: Products for the cosmetics, toiletries and pharmaceutical industries and for the detergents and household cleaners industry; aroma chemicals/perfume compositions.

Organic Specialty Chemicals: Base materials and additives for plastics, paints and coatings; auxiliary products for textile, leather and paper production; specialty products for mining, oil drilling, and for lubricants, plant care formulations and the construction industry. **Inorganic Products:** Silicates.

* More information on the topics marked (i) can be found on the Internet: www.henkel.de (and soon at www.henkel.com)



The Pritt stick celebrated its 30th birthday by becoming even more environmentally compatible. In 1999, a new formulation was introduced, based almost entirely on renewable raw materials.

The 2-component universal systems from Liofol are a solvent-free innovation in the field of laminating adhesives. They no longer have to be heated to 70 degrees Celsius but can be used when lukewarm. They cure much faster

and satisfy food regulation requirements. Their worldwide roll-out is planned for this year.

EMICODE EC1 is an emissions quality mark for flooring primers, leveling compounds and adhesives. The aim is to reduce the amount of harmful substances in the air indoors. Henkel has enjoyed considerable success with Thomsit products, which qualify for the EMICODE EC1 rating. They now account for 60 percent of the total volume of Thomsit flooring installation products.

Cosmetics/Toiletries

Henkel's competitive position has been successfully built up on a platform of long-term research, resulting in a continuous flow of product innovations and improvements for the hair care brands Palette, Poly Country Colors, Poly Vital Colors, Poly Brilliance, Igora Royal, Viton and Poly Re-Nature Creme. Research and development, selection of raw materials, test methods, and assessment criteria in the Düsseldorf and

Hamburg laboratories are all subject to uniform standards that apply worldwide.

The face care series Diadermine is proving especially successful. It is the market leader in Spain, occupies a respectable third place in France, and is now also available in Germany. Diadermine's success is based on the biomimetic principle. In effect, it mimics the skin's biological systems; it can therefore stimulate the skin and exert a positive influence on its natural energy.

Detergents/Household Cleaners

Together with the German allergy and asthma association (Deutscher Allergie- und Asthmabund e.V.), Henkel has developed a new generation heavy-duty detergent, which is marketed under the name Persil Sensitiv. The new detergent is ideal for everyone who has sensitive skin or is allergic to fragrances, as it contains nothing that is known to irritate the skin or air passages. Fragrances and colorants, for example, have been excluded. Persil Sensitiv contains special skin-compatible surfactants, is supplied in the form of Megaperls so that it is dust-free when

being measured out and leaves no residues after rinsing. These benefits were demonstrated by analyses and dermatological trials involving volunteers with sensitive skin. Following the initial market launch in Germany and Austria, a date is to be set for the roll-out in Europe.

With the new Pril 2 in 1, Henkel researchers have succeeded in combining Pril's ability to dissolve grease with the advantages of hand soap easy dispensing and use. In diluted form, Pril 2 in 1 is a powerful dishwashing detergent. Undiluted, it is an antibacterial hand soap. Pril 2 in 1 is available in Germany, Austria and Switzerland.





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Industrial and Institutional Hygiene (Henkel-Ecolab)

Henkel-Ecolab has developed a new system for small-scale users of automatic dishwashers. The system makes use of especially reliable and effective paste products. The dispenser ensures that the optimum amount of product is added.

The purDOS automatic dispensing system has been developed for professional washing machines with a capacity of 5 to 30 kilograms in hospitals, hotels, laundries, and homes for senior citizens. Users and the environment benefit from its accuracy and simple handling, as well as savings in packaging volumes and storage space.

The Henkel-Ecolab joint venture has initiated a safety training program for employees and customers. The training CD-ROM contains a set of slides. Training courses can be individually tailored to the participants' requirements in handling, transport or storage of Henkel-Ecolab products.



Surface Technologies

A chromate-free aluminum pretreatment in the automotive industry? Henkel Surface Technologies has made it possible to dispense with the previously essential ingredient. Chromate protects against corrosion and ensures excellent paint adhesion. The products Alodine 2040 and Alodine 2080, which are used by subcontractors and by Audi in the production of its A8 model and the new A2 subcompact car, make chromatecontaining pretreatment products superfluous. The procedure has enabled Henkel's customers to achieve significant cuts in the costs of treating

wastewater and waste. The occupational safety measures necessitated by the cancerogenic chromate can be dispensed with. The environment also benefits from the low treatment temperatures.

Surface Technologies has also created a new class of neutral cleaning products, known as P3neutracare. These products contain considerably more efficient washing active substances. Thanks to their broader application spectrum, previously essential additives such as defoamers are no longer needed. The consequence is reduced pollution of water and wastewater.



Chemical Products (Cognis)

Cognis specialists have developed a modular kit consisting of four products for regenerating soil and ensuring that it remains healthy. Farmers, foresters, and landscape gardeners can combine them at will to optimally suit their own purposes. The new Cognis products prevent fertile soil from being eroded. They stabilize the soil's water balance and maintain the oxygen-water balance in the root zone. Plants are able to absorb more nutrients, so less fertilizer needs to be applied. The roots are surrounded by a protective layer, and the parts of the plant above the surface are strengthened. As a result, the plants are more resistant to disease, and smaller amounts of plant protection products are needed. The name of this modular kit is Soil Cure. One of its components is alkyl polyglycoside (APG). Cognis developed this surfactant, which is obtained from raw materials (starch and fat) derived from plants and is mainly used in the development of cosmetic products, detergents and household cleaners.



Steps toward sustainability

How the experts view Henkel SHE Management

"There can be no doubt that Henkel is now the world's leading company in terms of environmentally compatible production and environmental management."

The experts of the Hamburg Environment Institute in the Top 50 Study, 1999.

Putting safety to the test

Between 1997 and the end of 1999, the Henkel Group's SHE experts carried out 183 SHE audits, each taking several days, at 147 Henkel production sites throughout the world (see pages 12 to 15). They thereby clearly exceeded the target of 136 audited sites by the end of 1999 that had been set by Henkel's Management Board. In the year 2000, the program will be extended to include another 41 sites. In addition, follow-up audits at already inspected sites will be started.

The benefits for Henkel: A high level of safety for employees, neighbors, and the environment, as well as cost savings at the sites as a result of fewer accidents and less lost production time, for example.

Lending a hand

Henkel traditionally supports social and cultural activities. In doing so, the Company has found that financial aid is especially effective when it goes to projects in which employees are personally involved. Henkel has therefore

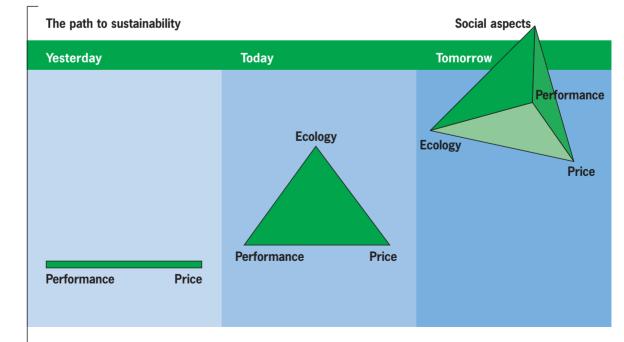
Focusing on

sustainable development

"The central aim of sustainability is to safeguard and improve ecological, economic and social efficiency. These are interdependent, and no single aspect can be optimized in isolation without casting doubt on the development process as a whole." Commission of Inquiry of the lower house of the German parliament on the subject of protecting mankind and the environment. (Commissions of Inquiry are an institution of the parliament of the Federal Republic of Germany, set up to examine complex issues with the help of scientists and persons who have relevant practical experience.)

launched a new initiative under the name "Mitarbeiter im Team" (employees team up), whereby it participates in employees' projects, takes up their ideas, follows their advice and makes use of their competence and their knowledge of local needs.

Henkel employees take part in a wide variety of projects. In Germany, for example, there are employees who work in groups which help addicts and others who support children dying from AIDS. One employee even took on the



Sustainability presents new challenges. Henkel intends to take a proactive approach in converting these challenges into competitive advantages. The correct balance between ecological, economic and social aspects ensures business success and projects an attractive image.

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"vacation job" of improving the miserable conditions in a Romanian orphanage for small children by installing sanitation facilities. In this case Henkel

provided financial help, as well as clothing, household cleaners and cosmetics.

In India, the Karaikal site has involved local small farms in an agricultural development and promotion program. Among the services Henkel provides are carrying out soil analyses and supplying seed.

The Henkel Group companies Manco and Loctite in the USA have introduced the following idea: For each pack of Quick Tite adhesive that is sold, the Susan G. Komen foundation receives a contribution of 5 cents to combat breast cancer.

Succeeding as a family business

The International Institute for Management Development (IMD) in Lausanne, Switzerland, is one of the world's leading business schools. In 1999, the IMD named Henkel as the winner of its Family Business Award. To qualify for the award, a company must be run by at least the third generation of the family, it must be internationally successful, and its products must be leaders in their markets. Another evaluation criterion is its commitment to social causes.

IMD wants its prize to draw attention to the often underestimated role of family businesses. In the western world such businesses account for between 45 and 70 percent of the gross national product.

Ranking highest ecologically

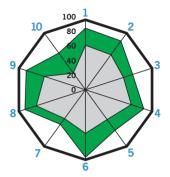
By continuously improving the environmental compatibility of its products and production processes, Henkel has reached a very high standard. We are pleased when others notice this. In 1999, for the third time, the Hamburg Environmental Institute evaluated the ecological performance of 50 of the world's largest chemical groups. After coming in second in 1994 and 1996, Henkel was ranked number one by a wide margin this time around.

Qualifying for the Dow Jones Sustainability Group Index

The Henkel Group is included in the world's first index whose portfolio is made up of companies that operate in accordance with the principles of sustainable development and whose economic performance is expected to be better than average. The Dow Jones Sustainability Group Index (DJSGI) was developed jointly by the Zurich rating institute SAM and Dow Jones. It contains the top 10 percent of the companies in each sector, rated in terms of sustainable development. Only 229 of the approximately 3000 names noted in the Dow Jones Global Index were selected for the DJSGI. However, Henkel is not one of the DJSGI's 18 "Leading Sustainability Companies."



Third study by the Hamburg Environmental Institute, 1999: Henkel's ratings in the 10 environmental categories



Score achieved (as % of the maximum points available) 1999 1996

- 1 Environmental policy
- 2 Worldwide standards
- 3 SHE management
- 4 Sustainability of products
- 5 Optimization of processes
- 6 Information policy

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- Waste and used products
- 8 Accident prevention
- 9 Contaminated sites
- 10 External ecological activities

Not least due to the Group-wide introduction of its SHE Management System, which started in 1997, Henkel has achieved clear improvements in all areas of safety, health and environmental protection during the last 3 years.

Protecting nature

Henkel wants to help protect natural habitats and the diversity of species. Since 1997, an eco sponsorship budget has been available to support ecological projects by conservationists, schools, and nonprofit associations.[®] A recent example from Germany is the start-up financing for a sustainability project in the Bergisches Land region to the east of Düsseldorf.

Farmers, butchers and a fruit juice producer are working together to sell products produced by agricultural methods in line with nature conservation. The project is coordinated by the Biologische Station Oberberg (Oberberg Biology Station), which also provides marketing support.

Binding principles: Business ethics

In its relationships with shareholders, employees, customers, suppliers, competitors, neighbors, politicians, officials and the community, the Henkel Group is judged by how it acts. Henkel's reputation is a crucial factor for the continuity and long-term profitability of the Company.

In 1999, an international work group composed of Henkel personnel managers distilled the Company's corporate culture into 10 rules of conduct, which make up the Code of Conduct of the Henkel Group.⁽¹⁾ This serves as an important guideline for decisionmakers throughout the Henkel Group and excludes conflicts of interest.

The Code of Conduct requires employees to conduct themselves in accordance with the highest standards of honesty and integrity during their daily work. Two of the ten binding rules of conduct are formulated as follows:

Respect individual diversity

Mutual respect is basic to our culture. We treat each other in our work environment accordingly, i.e., respectfully and free from abusive behavior and harassment. Any type of harassment, regardless of intent, direct or indirect, physical or verbal, is prohibited. Any such conduct by managers, employees, customers or suppliers of Henkel will not be tolerated.

Be fair in competition

Henkel companies support market economy. Within the framework of applicable competition laws, we seek to compete fairly. We do not prevent others from competing freely with each other and we do not make false or misleading comparisons with competitors.

Facts and figures

Occupational accidents

Occupational accidents are all accidents that involve Henkel employees on Henkel premises and result in at least one day of absence from work by these employees. Events outside of Henkel premises, such as traffic accidents on public roads, are not included.

The accident figures are shown for the Henkel Group as a whole and for the individual regions. In view of the large number of employees in Europe, the figures for this region have been broken down still further and are shown for Germany, the European Union excluding Germany, and Eastern Europe. The data have been statistically verified.



A centralized system which conforms to the criteria of the European Chemical Industry Council (CEFIC) is being set up to document occupational accidents in the Henkel Group. In 1999, it covered 64 percent of the total workforce of the Henkel Group (1998: 60 percent). Coverage differs from region to region. Chinese joint ventures, for example, are not yet included. In addition, the Cognis Group has created a worldwide accident database, into which all sites must enter precisely defined information within 24 hours after an accident. The data are analyzed and serve as a basis for improvements. The other business sectors are now following this example.

Henkel Group Fatal occupational accidents	1998	1999
Coverage: All production sites	1	0
Serious occupational accidents		
Accidents causing the injured person to be absent fi	rom	
work for more than 50 days		
Number of sites covered	88	107
Number of serious occupational accidents	58	40
Of these:		
a) Accidents during typical production		
activities (e.g., injuries incurred while		
operating a machine, scalds)	27	13
b) Accidents while walking or moving		
around (stumble, twisted ankle, etc.)	31	27

Distribution incidents in the Henkel Group

In 1999, there were no serious distribution incidents resulting in serious personal injury or lasting environmental damage due to the accidental release of Henkel products.

Distribution incidents involving contractors

The vehicle of a carrier, with a load that included a raw material destined for Henkel Mexicana, crashed at an intersection on the freeway between Mexico City and Celaya on December 20, 1999. The consignment intended for Henkel consisted of two containers, each containing 375 kg formic acid. One of the containers was damaged in the accident and started

Occupational accidents by region

Number of occupational accidents with at least one day of absence per 1,000 employees (excluding off-site accidents) 1998 1999



18

European Union

(excl. Germany) + Norway, Switzerland Coverage: 61% of all employees



Eastern Europe Coverage: 66% of all employees

14

Africa/Middle East Coverage: 21% of all employees



Asia/Pacific Coverage: 12% of all employees



North America Coverage: 95% of all employees



Latin America Coverage: 64% of all employees



to leak. As a precautionary measure, the authorities evacuated about 2,500 people from the vicinity for several hours.

A team of specialists from Henkel Mexicana assisted the emergency services in salvaging the dangerous load. As the accident was attributable to gross negligence on the part of the driver, no further orders will be placed with this carrier.

Significant operational incidents in the Henkel Group

In 1999, significant operational incidents occurred at three Henkel Group sites. Henkel categorizes an incident as "significant" if its consequences include at least one of the following:

- fatalities or serious injuries,
- endangerment of the neighborhood or environment,
- tangible losses of more than US \$100,000,
- a high level of public reaction.

In the previous year, 1998, no significant operational incidents occurred. In 1999, there were two fires involving damage to property and one operational incident resulting in serious injury to an employee.

On January 29, 1999, a fire broke out in an oleochemical production plant at the Boussens site in France. Employees quickly succeeded in extinguishing it. No one was injured, and the neighborhood and environment were not endangered. The cause of the fire was a crack in a hydrogen pipeline. Although the legal regulations require an inspection to be carried out only every 3 or 10 years, the site management has the pipelines inspected by an independent technical association each year. The most recent inspection had revealed no damage. After the repair, the inspection association checked the quality of the work carried out before the plant was started up again.

On March 22, 1999, fire broke out in a hazardous materials depot in Düsseldorf-Holthausen, Germany. A plastic Big Bag with a capacity of about 1 cubic meter, containing sodium percarbonate, had self-ignited. The plant fire department soon extinguished the fire. No one was injured, and the neighborhood and environment were not endangered. An equipment manufacturing firm had returned the sodium percarbonate to Henkel in the Big Bag after an operational test. The spontaneous ignition was probably caused by impurities introduced during the test. There are currently no plans to carry out further tests of this type. However, should such external tests be carried out with sodium percarbonate in future, Henkel will examine the returned product very closely.

On June 14, 1999, a steam boiler ruptured at the site in Brooklyn, New York, USA, strewing debris over an area extending beyond the site perimeter. The assistant plant manager sustained steam burns and was unable to return to work until the fall of 1999. The cause of the accident was identified as an improperly welded patch plate. This dated back to repair work performed by a specialist company before Henkel acquired the site in 1996. The boiler was inspected and approved for continued safe operation by an independent expert in 1997. The faulty weld was not detected. The defective boiler was scheduled to be scrapped shortly afterwards. A new boiler is now in operation. **Complaints from neighbors**

	1998	1999
Complaints attributable to Henkel		
Number of sites covered	88	107
Number of sites that received complaints	23	22
Number of sites that received more		
than 5 complaints	4	4
Number of complaints		
Total	91	88
Of these, due to odor	57	52
noise	18	29
dust	16	7
Improvement measures initiated	63	76
Cause already eliminated	27	34

31 production sites certified to international standards

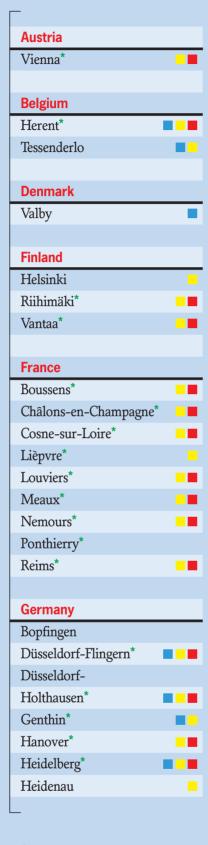
Facility audits by independent auditors are an important instrument for ensuring compliance with SHE requirements, for verifying the functionality of the Henkel SHE Management System at the sites, and thus for reducing risks. SHE audits by independent Henkel experts are examples of such inspections. In addition, Henkel Group companies have their environmental management systems certified to international standards by accredited external verifiers. This incurs higher costs.

If certificates yield market benefits, the Henkel Group companies take advantage of this opportunity. Some Henkel business sectors have adopted Group-wide certification as an objective (see pages 22 and 23).

Certified production sites				
	ISO 14001	EMAS		
Belgium	Henkel Belgium, Herent			
	Henkel-Ecolab, Tessenderlo			
Brazil	Cognis Brasil, Jacarei •			
	Henkel Loctite Adesivos, Jacarei			
	Henkel Surface Technologies Brasil, Diadema			
Denmark	Henkel-Ecolab, Valby			
Germany	Grünau Illertissen, Illertissen	•		
	Henkel Bautechnik, Unna	•		
	Henkel, Düsseldorf *	•		
	Henkel Fragrance Center, Krefeld	•		
	Henkel Genthin, Genthin			
	Henkel Oberflächentechnik, Herborn-Schönbach	•		
	Henkel Oberflächentechnik, Magdeburg	•		
	Henkel Teroson, Heidelberg •	•		
	Kepec Chemische Fabrik, Siegburg	•		
	Lang Apparatebau GmbH, Siegsdorf			
	Neynaber Chemie, Loxstedt	•		
	Thompson-Siegel, Düsseldorf-Flingern			
Great Britain	Henkel Limited, Winsford			
Hungary	Henkel Magyarország, Vác 🛛 🔍 🔴			
India	Henkel Spic India, Karaikal			
Ireland	Cognis Ireland, Cork			
	Loctite Ireland, Ballyfermot			
	Loctite Ireland, Tallaght			
Italy	Henkel S.p.A. Divisione Surface Technologies,			
	Caleppio di Settala			
Netherlands	Henkel-Ecolab, Nieuwegein •			
Poland	Henkel Polska, Racibórz			
Puerto Rico	Loctite Puerto Rico, Sabana Grande			
Sweden	Henkel Surface Technologies Nordic, Mölndal 🛛 🔹 🗨	•		
Spain	Henkel Ibérica (Pulcra), Barcelona, Zona Franca	•		
	Henkel Ibérica (Pulcra), Barcelona, Zona Terrassa			

*) The largest production facility of Cognis Deutschland GmbH occupies part of the site.

Europe



- * One of the 107 sites contributing to the Group data
- Certified to ISO 14001 and/or EMAS
- SHE audit carried out
- Objectives published

Herborn-Schönbach*	
Illertissen*	
Krefeld	
Lohne	-
Loxstedt*	
Magdeburg*	
Neesen	
Sankt Augustin	
Siegburg*	
Siegsdorf	
Unna	
Viersen-Dülken	
Wassertrüdingen*	
Great Britain	
Belvedere*	
Winsford*	
Greece	
Atalanti	
Hungary	
Körösladány*	
Koroslaually	
Szolnok	
-	
Szolnok	
Szolnok	
Szolnok Vác*	•••
Szolnok Vác* Ireland	•••
Szolnok Vác [*] Ireland Ballyfermot [*]	•••
Szolnok Vác* Ireland Ballyfermot* Bray	•••
Szolnok Vác* Ireland Ballyfermot* Bray Cork*	
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Szolnok Vác* Ireland Ballyfermot* Bray Cork* Tallaght*	
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	Mölndal* Gothenburg Switzerland Erlinsbach Turkey Cayirova*

Overview of the SHE situation at major production sites of the Henkel Group

Egypt	
Port Said*	
Israel	
Haifa [*]	
Kenya	
Nairobi*	
Lebanon	
Beirut	-
Morocco	
Casablanca*	
South Africa	
Alberton-Alrode*	
Cape Town	
Tunisia	
Tunis*	



Asia/Pacific



America

	Argentina		
	Avellaneda*		
	Brazil		
	Jacarei*		
	São Paulo/Diadema*		
	São Paulo/Itapevi*		
	1		
	Canada		
_	Brampton, Ontario*		
	Rexdale, Ontario*		
	Toronto, Ontario*		_
	Ohile		
	Chile	_	_
	Santiago*		
_	Jamaica	_	_
	Kingston*		
	Mexico		
	Ecátepec de Morelos*		
	Puerto Rico		
	Sabana Grande*		
	Venezuela		
	Venezuela Caracas/Guacara		
	Caracas/Guacara		
	Caracas/Guacara		
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	Caracas/Guacara USA Atlanta, Georgia* Aurora, Illinois* Avon, Ohio Brooklyn, New York Calhoun, Georgia* Charlotte, North Carolina* Cincinnati, Ohio* Denver, Colorado* Des Plaines, Illinois Elgin North, Illinois Elgin South, Illinois		

Jackson, Tennessee*	
Kankakee, Illinois*	
Lewisville, Texas	
Livonia, Michigan*	
Lock Haven,	
Pennsylvania*	
Mauldin, South Carolina*	
Oak Creek, Wisconsin*	
Solon, Ohio	
St. Louis, Missouri*	
Tucker, Georgia	
Warren, Michigan*	
Warrenswille Heights,	
Ohio*	
Wayne, New Jersey*	

The improvement of safety, health and environmental protection in a company should be a systematic process, one which is transparent to and assessable by both internal and external observers. Setting objectives, communicating interim results, and checking that the objectives are achieved all contribute to this. The Henkel Group publishes SHE data and objectives and reports on progress and results.

Environmental data

SHE performance indicators are an important management instrument, with which opportunities of making improvements in environmental protection and safety can be identified, ongoing measures can be controlled, and progress towards the attainment of objectives can be monitored. Performance indicators are also a suitable aid for communicating the status and progress of environmental protection and safety in the Company to the public.

Henkel has taken both of these aspects into account in defining the operational indicators published in the Environmental Data section (see pages 17 to 21). They include the core data set developed specially by the European Chemical Industry Council (CEFIC).

Emissions of phosphorus and nitrogen compounds into wastewater at Henkel Group sites are quantitatively negligible. For this reason, they are not recorded as a Group indicator. Henkel is currently setting up data collection systems for the transport safety indicators that CEFIC plans to publish as of 2001.

The Henkel Group is expanding. This is reflected in the increase in the number of production sites contributing to the environmental data (from 31 in 1995 to 107 in 1999). As the rate of expansion is not uniform, there are sudden jumps in the environmental indicators. The higher parameters in 1997 were mainly attributable to the inclusion of data from three newly acquired companies (Loctite, Schwarzkopf, Novamax) and several Chinese sites. In the Environmental Data section, each category of absolute emission and consumption values is accompanied by a graph showing the relative development of the associated parameter and the production volume. This is intended to simplify assessment of the absolute figures.

Objectives of the business sectors

The objectives of the individual business sectors are shown on pages 22 and 23, to the extent permitted by competitive considerations.

Site objectives

The decrease in emissions and the reduced consumption of resources in the Henkel Group represent the sum of the efforts and performances of the individual sites. Ambitious site objectives play a key role in achieving these improvements. The fact that some of these objectives are not achieved demonstrates how ambitious they are.

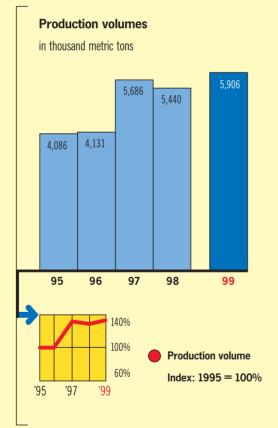
The longer list of site objectives in comparison to previous years (see pages 24 to 27) is another sign of the growth in SHE awareness in the Henkel Group companies.

Environmental data from 38 countries

Argentina	Hungary	Poland
Australia	India	Portugal
Austria	Indonesia	Puerto Rico
Belgium	Ireland	Russia
Brazil	Israel	Slovenia
Canada	Italy	South Africa
Chile	Jamaica	Spain
China	Japan	Sweden
Egypt	Kenya	Thailand
Finland	Malaysia	Tunisia
France	Mexico	Turkey
Germany	Morocco	USA
Great Britain	Netherlands	

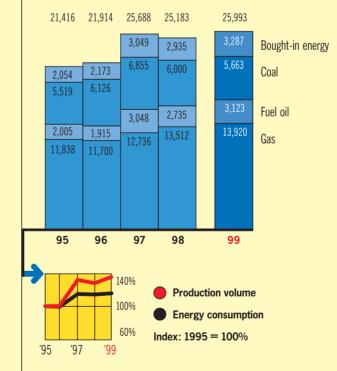
The SHE performance indicators are determined at 107 Henkel Group production sites in 38 countries and are aggregated to obtain the Group data. The 107 sites have been selected on the basis of their production volumes, the quantities and types of emissions, and the resources consumed. The selected sites account for 87 percent of the production of the entire Henkel Group.

Environmental data

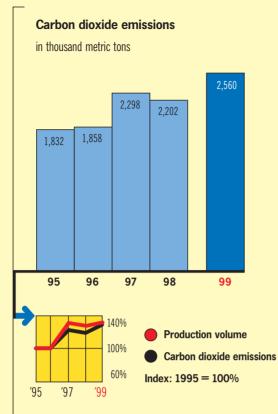


Energy consumption

in terajoules



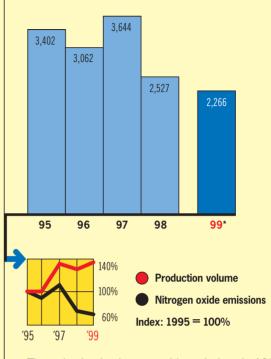
Bought-in energy is electricity, steam and district heating that is generated outside the sites.



The carbon dioxide released by the activities of the Henkel Group is almost all created by the generation of energy. The given values include carbon dioxide formed during the generation of bought-in, i.e., externally generated, energy. Since this carbon dioxide was not emitted at the Henkel sites, the amount was estimated with the help of recognized factors.



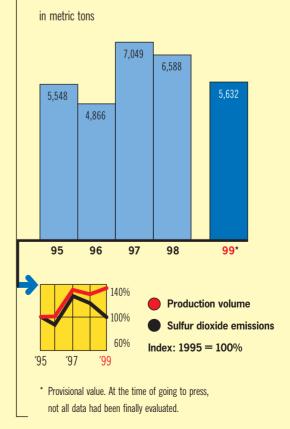
in metric tons (calculated as nitrogen dioxide)

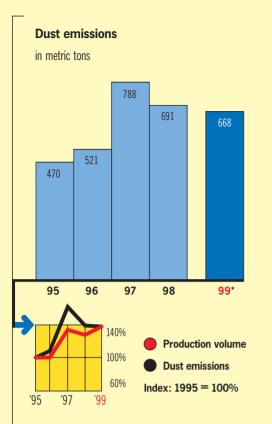


The reduction in nitrogen oxide emissions in 1998 is largely attributable to the switch to different sources of energy at eastern European and Chinese sites.

* Provisional value. At the time of going to press, not all data had been finally evaluated.

Sulfur dioxide emissions

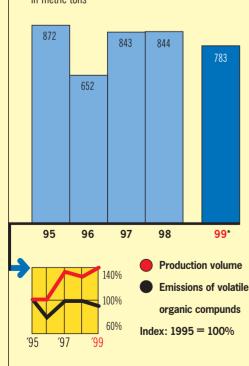




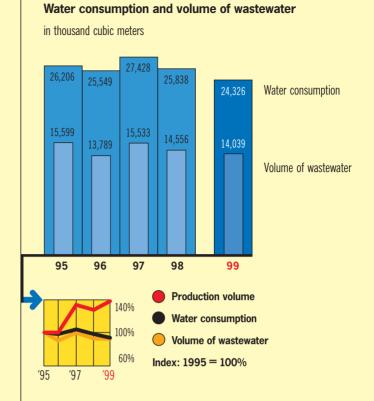
The values include aerosols, as they are difficult to distinguish from dust with the available measuring technology.

* Provisional value. At the time of going to press, not all data had been finally evaluated.

Emissions of volatile organic compounds in metric tons

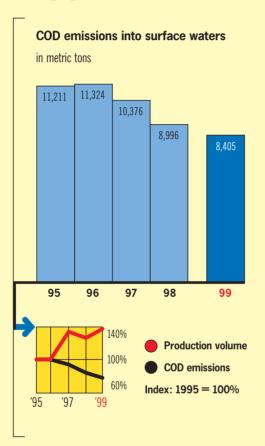


* Provisional value. At the time of going to press, not all data had been finally evaluated.

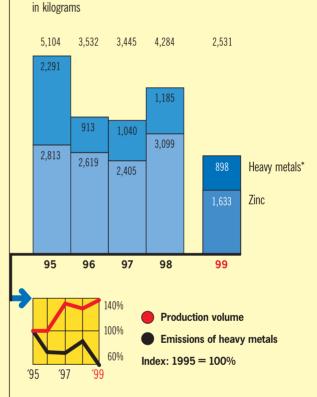


The water consumption includes all water, whether bought-in or extracted from Henkel's own sources. Most of this water is process water. Only a small proportion of drinking water is used. Because water is lost by evaporation from cooling towers and water is contained in products, the volume of wastewater is smaller than the volume of water consumed. The significant aspect of wastewater emissions is the magnitude of the loads actually discharged into surface waters. About a quarter of the sites are direct dischargers. In other words, the site wastewater is treated in-house and is then discharged into surface waters (for example, a river or the sea). The wastewater loads of these sites can be added directly to the amount for the Henkel Group as a whole.

The other sites are indirect dischargers, and only a proportion of their wastewater loads



therefore enters the environment. In order to reflect the actual burden on the environment in the total amount for the Henkel Group, it was assumed that, on average, 70 percent of the wastewater load from these indirect dischargers is degraded or eliminated in municipal or jointly operated sewage treatment plants. This is a very conservative estimate. Efficiently operated sewage treatment plants generally attain degradation and elimination rates well in excess of 90 percent.

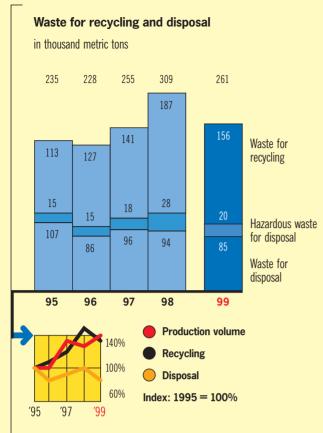


Emissions of heavy metals into surface waters

Zinc is traditionally counted as a heavy metal. As zinc is usually less harmful than other heavy metals in terms of its effects on the environment, the zinc load is shown separately.

The increase in zinc emissions in 1998 was caused by a change in production methods at one site. The measures then taken to reduce the zinc load started to produce results in late 1998, and the effects were visible in 1999.

* Lead, chromium, copper, nickel; particularly hazardous heavy metals, such as mercury and cadmium, are not processed.

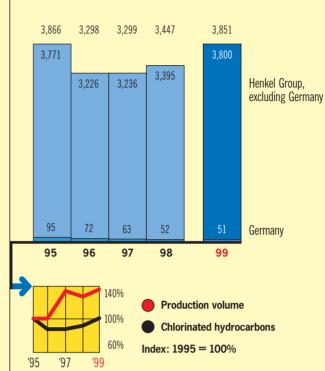


"Hazardous waste for disposal" includes not only those kinds of waste that are classified as hazardous under the laws of the respective countries, but also all hazardous wastes listed in the Basel Convention of 1989.

Because individual countries continue to extend their list of hazardous wastes, it is possible for the volume of hazardous waste to increase without any change having occurred in the waste situation in the Henkel Group.

The increase in the volume of waste for recycling in 1998 was attributable to just one site. A new official requirement stipulated that waste recycled inside the site had to be included in the 1998 figures. This requirement was rescinded in 1999. The 1998 data are thus not fully comparable with those of the other years. Consumption of chlorinated hydrocarbons

in metric tons



Methylene chloride, which is used in Great Britain in paint strippers, accounts for most of Henkel's consumption of chlorinated hydrocarbons.

Objectives of the Business Sectors

Objectives	Status
Adhesives	
Group-wide certification of the environmental management systems	\rightarrow 4 sites in Europe are certified (see page 11);
on the basis of the European Union's Eco-Management and	other sites are preparing for certification.
Audit Scheme and/or the international ISO 14001 standard	
Permanent revision and consistent optimization of the	→ As the global market leader, Henkel's strategy is not restricted to
entire range of products in line with SHE considerations	simply complying with legal requirements, but is targeted at playing
	a leading role in the environmental compatibility of products and the
	associated competitive advantages.
 Development of additional extremely-low-emission flooring 	→ For all types of floor coverings, installation products have been
installation products (primers, leveling compounds, adhesives)	developed that conform to the requirements of the EMICODE EC1
to avoid indoor air pollution	quality mark (see page 4); they already make up 60 percent of
	Henkel's range in Germany and will now be marketed consistently
	in other European countries.
 Preferential use of renewable raw materials 	→ The OLEOLINK project, which is being financed with public funds, is
	aimed at promoting the use of renewable oleochemical raw materials
	in adhesives. The formulation of the Pritt stick adhesive was changed
	and is now based almost exclusively on renewable raw materials.
• Expansion of the market for solvent-free adhesive systems	→ Market launch in products of leading U.S. manufacturers of
in the shoe manufacturing sector	sports footwear (produced in Asia)
• Expansion of the market for solvent-free laminating and	→ Marketed volume increased by 20 percent in 1999;
coating adhesives in cooperation with customers	additional projects started with major customers.
_	
_	_
Cosmetics/Toiletries	
Use of renewable raw materials, preferably vegetable-based	→ Permanent objective in the development of new formulations;
	1999: Market launch of an antiperspirant stick – 45 percent of its
	ingredients are based on renewable raw materials; in this respect,
	the stick leads in its product category.
	_
	_
Detergents/Household Cleaners	
Use of eco-performance indicators for complete evaluation of the	→ The indicators were bindingly defined in late 1999. They are
environmental impacts of detergents throughout their life cycle -	the basis for coordinating priority objectives in 2000.
definition of the indicators	
Reduction of 5 percent in energy consumption per wash cycle	\rightarrow Development work within the planned time schedule
(relative to the 1996 level) by the end of 2001	
Reduction of 10 percent in the amount of detergent per wash cycle	ightarrow Development work within the planned time schedule
(relative to the 1996 level) by the end of 2001	
Reduction of 10 percent in the amount of packaging per wash cycle	ightarrow Development work within the planned time schedule
(relative to the 1996 level) by the end of 2001	

Objectives

Status

Long-term, Group-wide certification of the environmental	→ Certification of Henkel-Ecolab GmbH & Co. OHG and Henkel-Ecolab
management systems to the international ISO 14001 standard	Deutschland GmbH, including business processes and the service
	processes at customer sites; in addition, 4 production sites have
	been certified (see page 11); certification of other sites in France,
	Ireland and Italy is planned for the year 2000.
Reduction of wastewater pollution in customer plants in	→ Successful market launch of enzyme-based cleaning system for
the food sector (breweries, dairies)	dairies (see SHE Report 1998, p. 37); these innovative products
	have already given Henkel-Ecolab competitive advantages.
Surface Technologies	
Group-wide certification of the environmental management systems	→ Certification of Henkel Oberflächentechnik GmbH (development,
to the international ISO 14001 standard	production and marketing);
	6 sites in Europe and Latin America are certified (see page 11).
Development and marketing of chrome-free conversion processes	ightarrow Continuous roll-out in the automotive industry and the coated
	aluminum manufacturing sector; further technological developmen
	→ Consolidation in the Italian market; launch in Spain, the USA,
Development and marketing of environmentally more compatible	and other countries
pickling processes for stainless steel	
hemical Products (Cognis)	
Chemical Products (Cognis) Group-wide certification of the environmental management systems	ightarrow 6 sites in Europe and Latin America are certified. Another 4 sites a
Chemical Products (Cognis) Group-wide certification of the environmental management systems to the international ISO 14001 standard	expected to be certified by the end of 2000.
Chemical Products (Cognis) 9 Group-wide certification of the environmental management systems to the international ISO 14001 standard 9 Development of new raw materials on a purely vegetable basis	expected to be certified by the end of 2000. → Permanent objective
hemical Products (Cognis) Group-wide certification of the environmental management systems to the international ISO 14001 standard Development of new raw materials on a purely vegetable basis Development and active marketing of APEO-free emulsifiers for	expected to be certified by the end of 2000. → Permanent objective → Products successfully marketed. Close cooperation with leading
Chemical Products (Cognis) 9 Group-wide certification of the environmental management systems to the international ISO 14001 standard 9 Development of new raw materials on a purely vegetable basis	 expected to be certified by the end of 2000. → Permanent objective → Products successfully marketed. Close cooperation with leading American and European producers of emulsion paints and
Chemical Products (Cognis) Group-wide certification of the environmental management systems to the international ISO 14001 standard Development of new raw materials on a purely vegetable basis Development and active marketing of APEO-free emulsifiers for	 expected to be certified by the end of 2000. → Permanent objective → Products successfully marketed. Close cooperation with leading American and European producers of emulsion paints and dispersion adhesives to facilitate worldwide switch of production to the second sec
 Chemical Products (Cognis) Group-wide certification of the environmental management systems to the international ISO 14001 standard Development of new raw materials on a purely vegetable basis Development and active marketing of APEO-free emulsifiers for polymerization 	 expected to be certified by the end of 2000. → Permanent objective → Products successfully marketed. Close cooperation with leading American and European producers of emulsion paints and dispersion adhesives to facilitate worldwide switch of production to APEO-free emulsifiers.
 chemical Products (Cognis) Group-wide certification of the environmental management systems to the international ISO 14001 standard Development of new raw materials on a purely vegetable basis Development and active marketing of APEO-free emulsifiers for polymerization Biodegradable distillates and cleansing oils for the 	 expected to be certified by the end of 2000. → Permanent objective → Products successfully marketed. Close cooperation with leading American and European producers of emulsion paints and dispersion adhesives to facilitate worldwide switch of production to the second sec
 Chemical Products (Cognis) Group-wide certification of the environmental management systems to the international ISO 14001 standard Development of new raw materials on a purely vegetable basis Development and active marketing of APEO-free emulsifiers for polymerization Biodegradable distillates and cleansing oils for the printing ink industry 	 expected to be certified by the end of 2000. → Permanent objective → Products successfully marketed. Close cooperation with leading American and European producers of emulsion paints and dispersion adhesives to facilitate worldwide switch of production to APEO-free emulsifiers. → First product successfully marketed
 chemical Products (Cognis) Group-wide certification of the environmental management systems to the international ISO 14001 standard Development of new raw materials on a purely vegetable basis Development and active marketing of APEO-free emulsifiers for polymerization Biodegradable distillates and cleansing oils for the printing ink industry Development of matrix resins based on renewable raw materials for 	 expected to be certified by the end of 2000. → Permanent objective → Products successfully marketed. Close cooperation with leading American and European producers of emulsion paints and dispersion adhesives to facilitate worldwide switch of production to APEO-free emulsifiers. → First product successfully marketed
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Site objectives

[European region			
			Result 1999	Target year
Austria	Vienna	Certification to ISO 14001 (initially planned:		
	EU Eco-Management and Audit Scheme) Extended to 2000		1999	
Belgium	Herent	Reduction of 9 percent in wastewater from production (relative	to 1999)	2000
Finland	Riihimäki	Certification to ISO 14001		2002
	Vantaa	Certification to ISO 14001		2002
France	Boussens	Certification to ISO 14001		2000
	Châlons-en-Champagne	Certification to ISO 14001 for Henkel-Ecolab and Henkel France		2000
	Cosne-sur-Loire	Certification to ISO 14001		2000
	Louviers	Creation of a wastewater register	Achieved	1999
		Certification to ISO 14001		2000
	Meaux	Reduction of suspended solids in wastewater to less than		
		15 milligrams per liter by improved final sedimentation		2000
		Reduction of 10 percent in wastewater load by		
		recovering recyclable materials (surfactants)		2000
		Certification to ISO 14001		2001
	Nemours	Certification to ISO 14001		2000
	Reims	Reduction of 20 percent in water consumption (relative to 1998)	-1 percent ¹⁾	1999
		Certification to ISO 14001	Extended to 2000	1999
Germany	Düsseldorf-Flingern	20 percent less product residues from cleaning processes		
		in wastewater	Extended to 2002 ²⁾	1999
		Reduction of accidents with at least one day of absence to		
		less than 15 per 1,000 employees		2000
	Düsseldorf-Holthausen*	Increase of 5 percent in recirculated steam condensate		2001
		Reduction of more than 50 kilograms per year in nickel load in w	vastewater	2001
		Reduction of accidents with at least four days of absence to		
		5 per 1,000 employees	4.9	1999
		Reduction of accidents with at least four days of absence to		
		4 per 1,000 employees		2000
	Hanover	Reduction of 55 percent in water consumption	-80 percent ³⁾	1999
		Reduction of 5 percent in hazardous waste (relative to 1997)	-10 percent ³⁾	1999
	Heidelberg*	Reduction of specific energy consumption from		
		320 to 290 kilowatt hours per metric ton of product	288	1999
		Reduction of 5 percent of waste per metric ton of product		2000
		Reduction of accidents with at least one day of absence to		
		less than 29 per 1,000 employees		2000
	Herborn-Schönbach*	Reduction in water consumption and volume of wastewater by reducing the number		
		of cleaning operations (installation of pipes that can be cleaned with pig systems)		2000
	Illertissen*	Reduction of COD load in wastewater (relative to 1998)	-14 percent	1999
		Improved organization of site emergency services		2000
	_			

* Additional objectives are declared in the site's environmental statement (can be requested free of charge).

¹⁾ Technical improvements could not be realized on schedule. ²⁾ Due to major changes in product range.

³⁾ Partly due to changes in product range.

			Result 1999	Target year
Germany	Lohne	Certification to ISO 14001		2000
	Loxstedt*	Reduction of 10 percent in hazardous waste (relative to 1998)	-97 percent ⁴⁾	1999
	Magdeburg*	Sealing of catch pots in the depot for water-polluting substances	Achieved	1999
		Reduction of 5 percent in water consumption (relative to 1999)		2000
		Reduction of 80 percent in hazardous waste (relative to 1999)		2000
	Siegburg*	Reduction of 5 percent in water consumption		2000
		Implementation of an occupational safety program (DuPont concept)		2000
	Wassertrüdingen	Creation of a wastewater stream register		2000
		Implementation of a disaster control drill		2000
Great Britain	Belvedere	Certification to ISO 14001		2001
Hungary	Körösladány	Certification to ISO 14001	xtended to 2000	1999
	Vác	Certification to ISO 14001	Achieved	1999
Ireland	Ballyfermot	Certification to ISO 14001	Achieved	1999
		Limitation of all noise sources to a maximum of 85 decibels (A)		2000
	Bray	Certification to ISO 14001		2000
	Cork	Reductions: 40 percent in sulfur dioxide emissions		2000
		25 percent in nitrogen oxide emissions		2000
		25 percent in carbon dioxide emissions		2000
	Tallaght	Certification to ISO 14001	Achieved	1999
		Creation of a waste register for hazardous waste		2000
Italy	Caleppio di Settala	Reduction of 30 percent in water consumption (relative to 1998)		2001
	Ferentino	Reduction of 10 percent in volume of waste per metric ton of produc	t	2001
	Fino Mornasco	Reduction of 50 percent in reportable accidents		2001
	Lomazzo	Reduction of 10 percent in volume of waste per metric ton of produc	t	2001
	Rozzano	Certification to ISO 14001		2000
Netherlands	Ravenstein	Certification to ISO 14001		2000
Poland	Racibórz	Reductions: 96 percent in sulfur dioxide emissions	-96 percent	1999
		97 percent in dust emissions	-95 percent	1999
		99 percent in soot emissions	-96 percent	1999
		20 percent in carbon dioxide emissions	-50 percent	1999
		Certification to ISO 14001	Achieved	1999
		Certification of occupational safety management to Polish standard		2001
Portugal	Alverca	Reduction of 3 percent in solid waste (relative to 1999)		2000
		Certification to ISO 14001		2000
Russia	Tosno	Certification to ISO 14001		2002
Slovenia	Maribor	Construction of a wastewater retention basin	Deferred	1999
		Installation of catch pots in raw materials depot	Achieved	1999
		Certification to ISO 14001		2001
Spain	Barcelona/Zona Franca*	Reduction of 10 percent in water consumption per metric ton of prod	uct -20 percent	1999
	La Coruña	Certification to ISO 14001		2000
	Malgrat	Certification to ISO 14001		2000
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⁴⁾ Partly due to change of classification.

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Site objectives

	European region		
		Result 1995	Target year
Spain	Montornés	Certification to ISO 14001	2000
	San Adrián	Certification to ISO 14001	2000
	Santa Perpétua	Certification to ISO 14001	2000
	Seville/Alcalá de Guadaira	Certification to ISO 14001	2000
Sweden	Mölndal*	Reduction of 50 percent in organic load in wastewater (relative to 1998)	2000
Turkey	Cayirova	Certification to ISO 14001 Extended to 2001	1999
	Izmir	Reduction of 30 percent in the sulfate load of wastewater (relative to 1999)	2000
	_		
	_		7
	Africa/Middle East region		Turnet
		Result 1999	U y
Israel	Haifa	Reduction of 75 percent in wastewater from production (relative to 1999)	2000
South Africa	Alberton-Alrode	Certification to ISO 14001	2001
	Chloorkop	Certification to ISO 14001 Objective was not pursued ⁵	1999
l			
	Asia/Pacific region		
	Asia/ Facility region	Result 1995	Target year
Australia	Melbourne/Kilsyth	Certification to ISO 14001	2001
China	Guangzhou	Certification to ISO 14001	2000
onnu	Guilin	Creation of a wastewater register Achieved	
		Reduction of 50 percent in water consumption (relative to 1998)	2000
		Wastewater-free detergent production	2001
	Shanghai/Tao Pu	Certification to ISO 14001	2001
	Siping	Reduction of 8 percent in the total volume of wastewater (relative to 1998) -20 percent	
	Tianjin	Reduction of 90 percent in the sulfur dioxide emissions of the boiler house	2000
	•	Reduction of 90 percent in the dust emissions of the boiler house	2000
	Xuzhou	Reduction of 80 percent in wastewater from production (relative to 1999)	2000
India	Karaikal	Reduction of 5 percent in gas consumption (relative to 1999)	2000
		Reduction in occupational accidents to a maximum of 14 per 1000 employees	2000
Indonesia	Jakarta	Certification to ISO 14001	2001
		Reduction of 10 percent in volume of wastewater (relative to 1999)	2001
Malaysia	Sungai Buloh	Certification to ISO 14001	2002
	Telok Panglima Garang	Reduction of 70 percent in the sulfur dioxide emissions of	
		the boiler house -70 percent	1999
		Certification to ISO 14001	2001
		Reduction of 50 percent in reportable accidents	2000
Thailand	Bangkok	Certification to ISO 14001	2001
	_		

* Additional objectives are declared in the site's environmental statement (can be requested free of charge).

⁵⁾ Production relocated to Alberton-Alrode.

	American region			
			Result 1999	Target year
Argentina	Avellaneda	Certification to ISO 14001	Extended to 2000	1999
		Reduction of 50 percent in reportable accidents		2000
Brazil	Jacarei	Reduction of 5 percent in laboratory waste (relative to 1998)	-70 Prozent	1999
		Reduction of 10 percent in organic load in wastewater (relative to 19	999)	2000
	São Paulo/Diadema,	Reduction of 5 percent in water consumption (relative to 1999)		2000
	São Paulo/Itapevi	Certification to ISO 14001		2000
Canada	Brampton, Ontario	Certification to ISO 14001		2001
	Rexdale, Ontario	Certification to ISO 14001		2001
		Recycling of 10 percent more wastewater from cleaning processes		2000
	Toronto, Ontario	Installation and starting up of an odor control system	Achieved	1999
		Continuation of odor control measures		2000
Chile	Santiago	Reduction in volume of wastewater (relative to 1998)	+21 percent ⁶⁾	1999
Mexico	Ecátepec de Morelos	Certification to ISO 14001	Extended to 2000	1999
		Reduction of more than 80 percent in the organic load of		
		wastewater (relative to 1998)		2000
USA	Aurora, Illinois	Certification to ISO 14001		2001
	Calhoun, Georgia	Certification to ISO 14001		2001
	Charlotte, North Carolina	Reduction of 45 percent in toluene emissions		2000
	Cincinnati, Ohio	Reduction of 50 percent in emissions of volatile organic substances	;	2000
		Reduction of 9 percent in the organic load of wastewater		
		(measured as biological oxygen demand) (relative to 1998)		2000
	Denver, Colorado	Certification to ISO 14001		2001
	Fremont, California	Certification to ISO 14001		2001
	Gulph Mills, Pennsylvania	Certification of responsible care management by the		
		U.S. Chemical Manufacturers Association	Achieved	1999
	Jackson, Tennessee	Certification to ISO 14001		2001
	Livonia, Michigan	Certification to ISO 14001		2001
	Lock Haven, Pennsylvania	Reduction of 25 percent in emissions of volatile organic substances	–42 percent	1999
	Oak Creek, Wisconsin	Certification to ISO 14001		2001
	St. Louis, Missouri	Certification to ISO 14001		2001
	Wayne, New Jersey	Certification to ISO 14001		2001
	Warren, Michigan	Certification to ISO 14001		2001
	Warrensville Heights, Ohio	Certification to ISO 14001		2001
	_			

Group objectives		
SHE audits at 136 sites by the end of 1999	144	1999
SHE audits at 41 further sites by the end of 2000		2000

⁶⁾ Due to changes in the product range and increased production.

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Key target groups for the SHE Report

- Trade, industrial clients
- Financial circles
- Politicians, government authorities
- Press, media
- Ecological institutions, environmental associations
- Employees
- Consumers

Henkel has successfully produced and marketed brand-name and technical consumer products for 123 years. It is therefore fully aware that success depends on providing products that are exactly tailored to clients' wishes. This basic principle, which the Company applies to its products and systems, is also applicable to communication with different target groups, especially regarding safety, health and the environment. For this reason, Henkel decided to investigate, with the help of external experts, reactions to its SHE Report among key target groups. The result was a balanced mixture of praise and criticism. Requests were also made for information that Henkel had not covered until then.

How readers assessed the 1998 Henkel SHE Report

(most frequent responses)

What pleased you most about the Henkel SHE Report?

- Henkel environmental objectives
- Henkel environmental data

What pleased you least?

- Too little attention is paid to controversial topics currently in the public eye (for example, genetic engineering)
- Too positively slanted

Henkel responded by rethinking and reshaping the overall communications concept of the SHE Report. A start was made with "Environment, Safety, Health – Facts and Figures for 1998." The revision process was continued in 1999. The main changes are as follows:

New in 2000: Concise SHE Report

In alternate years, the Henkel Group will publish a comprehensive SHE Report and a concise report. This is the first such concise report. Both versions will be published in German and English. The concise report will consist mainly of the SHE objectives and data, which readers rate as especially important.

New in 2000: More information on the Internet

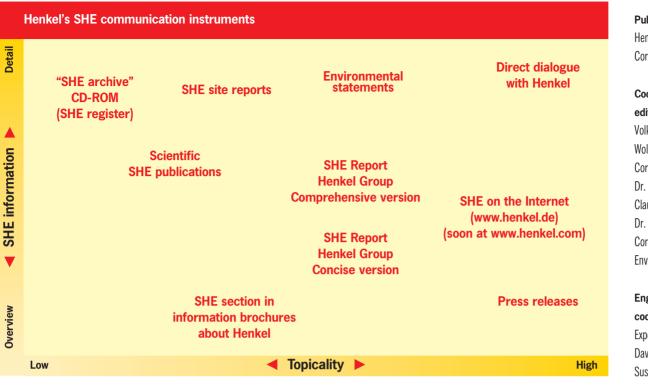
SHE information is presented in a clear and attractive format and regularly updated on the Internet (already at www.henkel.de, soon at www.henkel.com).

New in 2000: Site reports

15 Henkel production sites throughout the world are currently participating in a pilot project by preparing SHE site reports in their own language.

Henkel actively promotes dialogue

No matter how many new brochures and publications appear, they will never replace the spoken word. Henkel actively seeks to engage in a dialogue with the local community, schoolchildren, teachers, college students and professors, as well as with journalists, politicians and representatives of government authorities and environmental associations. Outstanding SHE results are announced in press releases. The various ways of contacting us are shown on the page to the right.



Further information

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Comments, suggestions:

If you would like to receive more information, check the relevant items.

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- Principles and Objectives of Environmental Protection and Safety
- Corporate SHE standards
- O Henkel Group's Code of Conduct
- Environmental Statement of Henkel KGaA, Düsseldorf-Holthausen (in German)
- Henkel Group's SHE Report 1998
- in view of tomorrow Research and Development at Henkel
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