

BMZ



Federal Ministry
for Economic Cooperation
and Development



Chemical Safety GIZ Convention Project

Managing chemicals properly

Published by

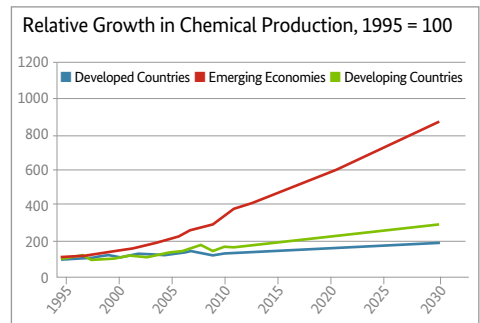
giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

The role of chemicals in modern life

Chemicals are everywhere – in textile, plastics, food, pharmaceuticals, electronics, plant protection products, building materials, etc. The global production of chemicals rose by 54% in the last ten years. Chemicals help create a modern and prosperous way of life. However, chemicals also pose potential threats to human health and the environment if they are not managed, recycled or disposed of properly.

The rapidly growing use of chemicals and the amount of chemicals in products (CiPs) far exceed the implementation measures for protecting humans and the environment from dangers related to chemicals and their

wastes. This applies particularly to developing countries and emerging economies where key stakeholders often have insufficient knowledge and experience.



Source: Verband der Chemischen Industrie (VCI)

Industrial plant, Evonik, Marl – Industrial development and environmental protection can and must go hand in hand.



The Project Chemical Safety aims to share the vast experiences in the sound management of chemicals within developing and transitional countries together with the chemical industry, NGOs and international organisations. This cooperation leads to improving competitiveness and prosperity for business, while spreading environmentally sound practices. The project operates globally on behalf of German Government consulting the Federal Ministry for Economic Cooperation and Development (BMZ) and the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB).

Main objectives

- Mobilising professional expertise for the Convention process - Developing guidelines & providing concrete solutions
- Disposal of hazardous chemicals
- Capacity Building - Conducting trainings & encouraging professional networking
- Improving value chains and establishing life-cycle & cradle-to-cradle approach

Key areas

- Sustainable Chemistry by implementing SAICM objectives (Strategic Approach to International Chemicals Management)
- International Chemical Conventions (Basel, Rotterdam, Stockholm and Minamata)
- Implementation of international standards such as International Labour Organisation (ILO), Food and Agriculture Organisation (FAO) etc.

Materials developed by the project – often in close collaboration with industrial companies, international agencies and other stakeholders:

- GIZ Guideline on PCB Management
- Manual for Industrial Hazardous Waste Management for authorities in Low and Middle Income Economies
- Practical Chemical Management Toolkit
- University curriculum for Sustainable Chemistry

- The Global Chemicals and Waste Information Platform:
www.global-chemicals-waste-platform.net

Our capacity building courses, especially for small- and medium-sized enterprises (SMEs), focus on:

- Work safety in both the agricultural and industrial sectors
- Correct management of chemicals and the disposal of chemical wastes
- Strong focus on Non-Product Output (NPO) and good resource management which leads to substantial benefits for both the companies and the environment

Expertise and field projects

- Expert consultations for the governments and focal points
- Ratification support for the new conventions
- Risk analysis
- Concrete solutions for the disposal of hazardous chemicals and the remediation of contamination sites.



Field worker wearing protective equipment – personal protective equipment, safe machinery, proper storage of chemicals and worker awareness are vital.

Cooperation and development partnerships with German and multinational industrial companies:



Shell Chemical Ltd. (UK) in India and Shell Chemical Ltd. (UK) & Bayer Crop-Science (Germany) in Nepal

Capacity development for the environmentally sound management of POPs in India and pesticides in Nepal

- On-the-job trainings that involve the collection, safeguarding & disposal of POPs including approximately 100t of hexachlorocyclohexane and 50t of dieldrin (India); and on pesticide management, according to the FAO code of conduct (Nepal) 100t of various obsolete pesticides including methyl bromide were collected & disposed of
- Training authorities in proper emission monitoring and the safe management of pesticides, thus building local capacity to handle & destroy POPs chemicals



Merck KGaA (Germany) in the Philippines

Management of chemical waste

- Training of people using the Convention Project's chemicals management toolkit
- Newly trained individuals conducted a chemicals management cycle in SMEs, including hazardous waste management under the supervision of GIZ staff



Strategic Alliance with Holcim AG (Switzerland)

Guide on Co-Processing of Hazardous Wastes in cement kilns

- Pilot projects in Chile, Morocco, Philippines and Mexico produced internationally recognised guidelines www.coprocem.com/holcim-gtzalliance/COPROCEMe.pdf



Karo As Umwelt-schutz GmbH (Germany) in Macedonia:

Introducing a waste oil management system

- Establishment of a waste oil collection scheme: Recycling waste-oils for re-use within the local market
- Certifying waste-oil collectors



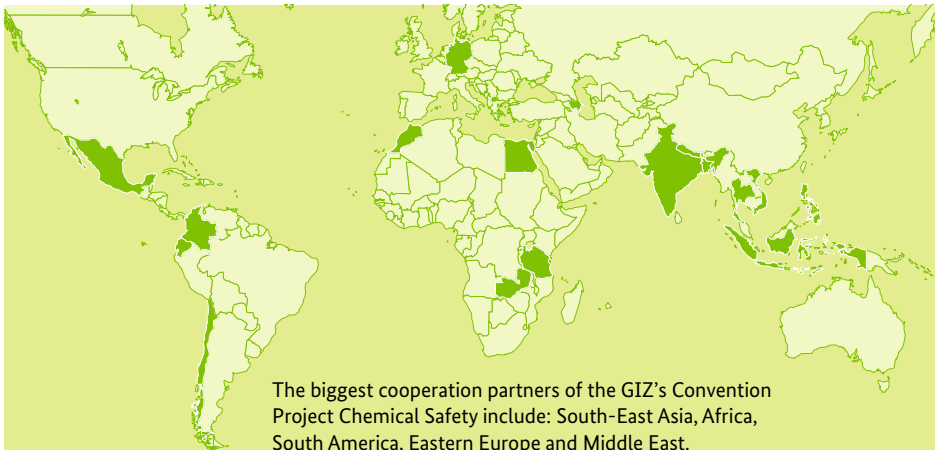
Every partner, every task, every solution is unique – To cluster its capabilities effectively, the GIZ has created tools to allow the transfer of knowledge and experience to a whole range of clients and organisations.

Ways of cooperation

- Development Partnerships with the Private Sector / develoPPP
- Strategic Alliance
- Integrated Economic Partnerships
- Africa Facility
- Capacity Development for Partnerships with the Private Sector (CDP)

Success – Successful collaborations in the past have displayed that the Convention Project Chemical Safety and its industrial partners ideally complement each other. While private enterprises provide funding and expertise for projects, we contribute our working experience in developing countries as well as our expert knowledge regarding chemical issues. The project also has a limited budget allocated to industrial cooperations.

The Convention Project Chemical Safety has a long-standing experience in cooperating with industry and constantly looking for innovative project ideas to join forces for the sake of improved competitiveness and sustainable growth.



The biggest cooperation partners of the GIZ's Convention Project Chemical Safety include: South-East Asia, Africa, South America, Eastern Europe and Middle East.

Contact for more information

Helmut Krist

Senior Project Manager

Convention Project Chemical Safety

Tel. + 49 (0) 228 2493 4445

Mobile + 49 175 8032 830

helmut.krist@giz.de

www.global-chemicals-waste-platform.net



Published by
Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH

Registered offices
Bonn and Eschborn, Germany

Convention Project Chemical Safety
Dag-Hammarskjöld-Weg 1-5
65760 Eschborn, Germany
Tel. +49 (0) 6196 79 - 0
Fax +49 (0) 6196 79 - 1115
chem-wep@giz.de
www.giz.de/chemical-safety

Friedrich-Ebert-Allee 40
453113 Bonn, Germany
Tel. +49 (0) 228 44 60-0
Tel. +49 (0) 228 44 60-17 66

Design and layout
Jeanette Geppert, Frankfurt, Germany

Printed by
in puncto druck und medien gmbh, Germany, Printed on FSC-certified paper

Photo credits
Cover © fotolia/Tom Bayer; page 2 © Evonik; page 3 © GIZ; page 4 © fotolia/Tyler Olson;
© GIZ/W. Schimpf; © GIZ; © GIZ/W. Schimpf; © fotolia/Dark Vectorangel; © GIZ;
© fotolia/arsdigital; © fotolia/photo 5000

As at
November 2014

GIZ is responsible for the content of this publication.

On behalf of
German Federal Ministry for Economic Cooperation and Development (BMZ);
Division Global issues – sector policies and programmes

Addresses of the BMZ offices

BMZ Bonn
Dahlmannstraße 4
53113 Bonn, Germany
Tel. +49 (0) 228 99 535 - 0
Fax +49 (0) 228 99 535 - 3500

BMZ Berlin
Stresemannstraße 94
10963 Berlin, Germany
Tel. +49 (0) 30 18 535 - 0
Fax +49 (0) 30 18 535 - 2501

poststelle@bmz.bund.de
www.bmz.de