

Introduction to the

# IOMC Toolbox for Decision-Making in Chemicals Management

October 2022



# IOMC



INTER-ORGANIZATION PROGRAMME FOR THE SOUND MANAGEMENT OF CHEMICALS

A cooperative agreement among FAO, ILO, UNDP, UNEP, UNIDO, UNITAR, WHO, World Bank and OECD



The IOMC Toolbox  
project is funded by  
the European Union

# IOMC



INTER-ORGANIZATION PROGRAMME FOR THE SOUND MANAGEMENT OF CHEMICALS

A cooperative agreement among FAO, ILO, UNDP, UNEP, UNIDO, UNITAR, WHO, World Bank and OECD

## INTER-ORGANIZATION PROGRAMME FOR THE SOUND MANAGEMENT OF CHEMICALS (IOMC)

- Established in 1995
- Objective: To strengthen international cooperation in the field of chemicals and to increase the effectiveness of the organisations' international chemicals programmes

# IOMC



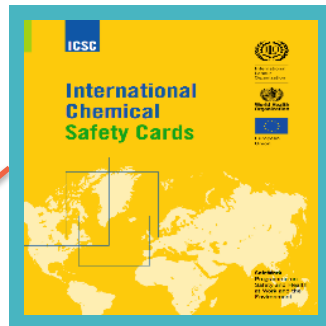
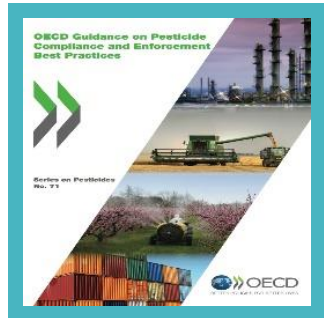
INTER-ORGANIZATION PROGRAMME FOR THE SOUND MANAGEMENT OF CHEMICALS

A cooperative agreement among FAO, ILO, UNDP, UNEP, UNIDO, UNITAR, WHO, World Bank and OECD

The IOMC is comprised of:

- Food and Agriculture Organization of the United Nations (FAO)
- International Labour Organization (ILO)
- United Nations Development Programme (UNDP)
- United Nations Environment Programme (UNEP)
- United Nations Industrial Development Organization (UNIDO)
- United Nations Institute for Training and Research (UNITAR)
- World Health Organization (WHO)
- World Bank
- Organisation for Economic Co-operation and Development (OECD)

# IOMC TOOLBOX: THE CHALLENGE



- IOMC Participating Organizations have developed hundreds of tools and guidance documents that are relevant for countries in their efforts to implement SAICM
- However, finding the most appropriate tool or guidance document to address specific national issues can be a challenge

# IOMC TOOLBOX: THE SOLUTION

- The internet-based IOMC Toolbox enables countries to **identify the most relevant and efficient national chemicals management actions**
- The Toolbox **takes into account the resources available** and guides users towards **cost-effective solutions** adapted to the country
- At each implementation step, the Toolbox **presents the relevant IOMC resources, guidance documents, and training material**, all available online and free of charge

The screenshot shows the IOMC Toolbox website. At the top, there is a navigation bar with the IOMC logo and various menu items like 'Management schemes', 'Toolbox', 'Event', 'News', 'Help', and 'Contact'. Below the navigation bar is a large banner with the text 'IOMC TOOLBOX For decision making in chemicals management'. Underneath the banner is a search interface with a 'Resource available' slider (Low, Medium, High), a 'Management scheme' dropdown menu, and a search box with a 'Search' button. Below the search interface is a section titled 'About IOMC Toolbox' with two columns of text. The first column describes the toolbox as an internet-based tool for decision making in chemicals management. The second column states that the toolbox identifies available IOMC resources that help countries address national problems or objectives, with a special focus on simple cost-effective solutions to national chemicals management issues.

**IOMC** INTERNATIONAL ORGANIZATION FOR THE SOUND MANAGEMENT OF CHEMICALS

Management schemes | Toolbox | Event | News | Help | Contact | My IOMC | EN

## IOMC TOOLBOX

For decision making in chemicals management

Resource available: Low Medium High  
Management scheme: Select a management scheme  
Search or select an element: Ex: Air pollution  
Search  
Advanced search

### About IOMC Toolbox

**The IOMC Internet-based Toolbox for Decision Making in Chemicals Management** (IOMC Toolbox) is aimed at countries who wish to address specific national issues regarding chemicals management.

**The IOMC Toolbox** is a problem solving tool that enables countries to identify the most appropriate and efficient national actions.

**The toolbox identifies the available IOMC resources** that will help the country address the identified national problem(s) or objectives. Special focus is given to identifying simple cost effective solutions to national chemicals management issues.


# IOMC TOOLBOX

For decision making in chemicals management


Resource available



Management scheme

Select a management scheme 

Search or select an element

Ex : Air pollution 

 Search

[Advanced search](#)

## About IOMC Toolbox

The IOMC Toolbox is a problem-solving resource that enables countries to identify the most appropriate and efficient national actions to address challenges related to chemicals management.

At each implementation step, the Toolbox presents the relevant IOMC tools, guidance documents, and training material, all available online.

- Explore eight management schemes, five toolkits, and hundreds of tools
- Identify customized solutions adapted to the available national resources
- Attend IOMC Toolbox webinars and training events

# IOMC TOOLBOX: Background

## Phase I (2012)

- Development of a proof-of-concept version of the Toolbox.

## Phase II (2013-2017):

- More than 6,500 participants received training or attended promotional events for the IOMC Toolbox.

**The funding is provided by the EU**

## Phase III (2018-2021):

- New platform for the IOMC Toolbox: new design, search functionality, offline version
- Tailored Capacity Building events (National and regional workshops, Webinars on management systems, technical topics, flagship tools or toolkits)
- Promotion

## Phase IV (2022-2025):

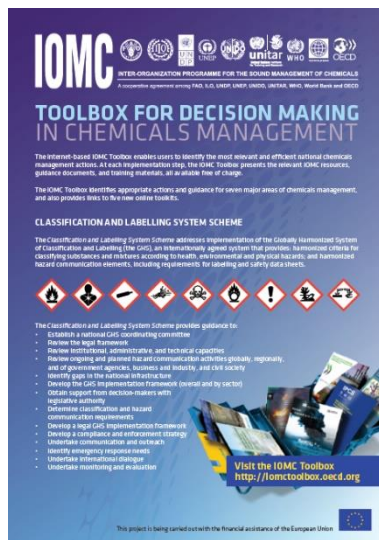
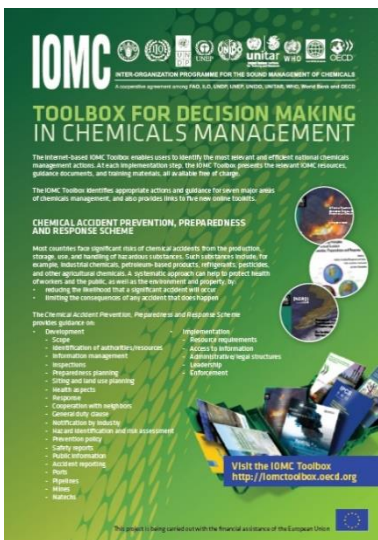
- Add new tools (and update existing tools) to the existing IOMC Toolbox management schemes
- Develop new management schemes (e.g. on development of national waste management strategies)
- Develop four new modules to be added to the Pesticide Registration Toolkit, including on post-registration monitoring and surveillance of pesticides with a focus on Highly HHPs, and on pesticide labelling/GHS;
- Translations

The IOMC Toolbox includes eight management schemes for:

1. Chemical accident prevention, preparedness, and response

This management scheme helps to identify approaches for a national “Chemical Accidents Programme” that is appropriate for your country’s particular circumstances, considering the level and nature of risks, type of industries, available resources, and legal and cultural context.

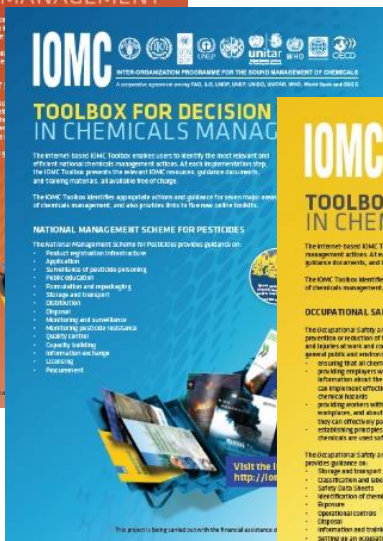
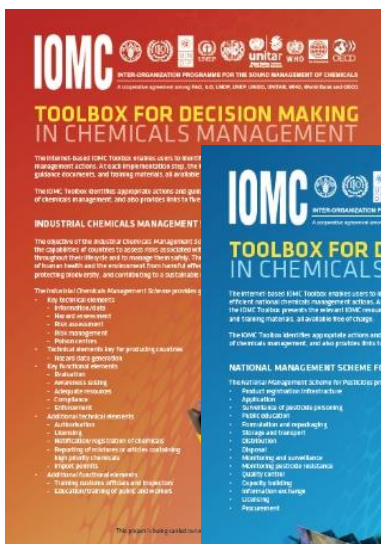
2. Globally Harmonized System of Classification and Labelling of Chemicals (GHS)





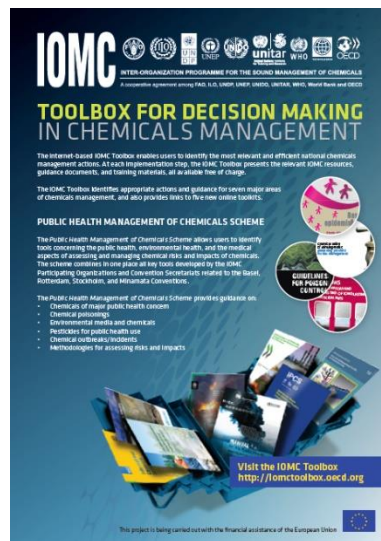
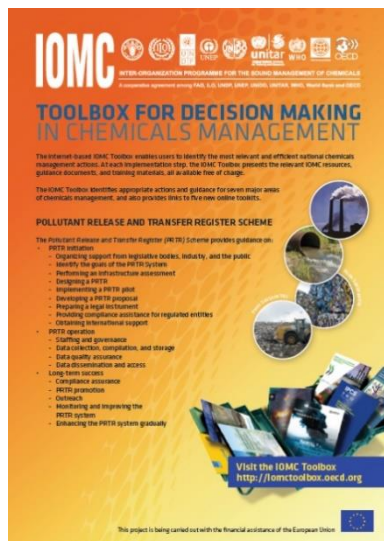
# IOMC TOOLBOX: THE SCHEMES

- Industrial chemicals management scheme**  
 The objective of this scheme is to strengthen the capabilities of countries in assessing risks associated with industrial chemicals throughout their lifecycle and managing them safely.
- National pesticides management scheme**  
 The scope of a national management scheme for pesticides is to control which pesticides can be used and how thereby avoiding adverse effects to man and the environment.
- Occupational health and safety management scheme**  
 This scheme focuses on preventing and reducing the incidence of chemically induced illnesses and injuries at work and consequently to enhance the protection of the general public and environment.









# IOMC TOOLBOX: THE SCHEMES

- Pollutant release and transfer registers**  
The objective of a national management scheme for PRTs is to strengthen the capabilities of countries to track the amount of certain chemicals released to air, water and land and transferred off site that may pose a threat to human health and the environment. Collecting these data helps support informed decision-making by industry, government, non-governmental organizations and the public.



- Public health management of chemicals**  
This section guides users to tools concerning the public health, environmental health and the medical aspects of assessing and managing chemical risks and impacts of chemicals. the WHO Chemicals Road Map guides users to tools for the implementation of more than 50 health related action items listed in the WHO Road Map.
- Best available techniques for preventing and controlling industrial chemical pollution**  
The BAT scheme details (in 4 steps) how to design, establish, evaluate and determine BAT in order to prevent and control the emission of industrial pollutants in your country.

# Toolkits

-  [FAO Pesticide Registration Toolkit](#)
-  [OECD Environmental Risk Assessment Toolkit - Cloned](#)
-  [UNIDO Chemical Leasing Toolkit](#)
-  [UNIDO Innovative Approaches for the Sound Management of Chemicals and Chemical Waste Toolkit](#)
-  [UNIDO Green Chemistry Toolkit](#) →
-  [WHO Human Health Risk Assessment Toolkit: Chemical Hazards](#)



The toolkit provides materials to deepen the understanding of Green Chemistry, including origins, technologies and how it drives environmental and economic goals for societal benefits. The toolkit aims to transform the trainees into Green Chemistry facilitators who will be able to disseminate Green Chemistry to their networks by using practical and tangible examples that encourage the change. It was developed under the Global Green Chemistry Initiative – a project led by UNIDO in partnership with the Center for Green Chemistry and Green Engineering at Yale University.

[Discover toolkit](#) →

# IOMC TOOLBOX: THE TOOLKITS

The IOMC Toolbox also includes six online toolkits:

- **FAO Pesticides Registration Decision Making Toolkit**

The screenshot shows the homepage of the FAO Pesticide Registration Toolkit. The header includes the FAO logo and the text 'Food and Agriculture Organization of the United Nations' and 'Pesticide Registration Toolkit Decision Support System for Pesticide Registrars in Developing Countries'. The main content area is titled 'FAO Pesticide Registration Toolkit' and describes it as a decision support system for pesticide registrars in developing countries. It features a navigation menu on the left with sections like 'Registration Tools', 'Information Sources', and 'Address book'. The main text explains that the toolkit has two types of tools: 'Registration Tools' and 'Information Sources'. There are also 'Latest updates' and a video titled 'An introduction to the Pesticide Registration Toolkit'.

The FAO Pesticide Registration Toolkit is a decision-support system for pesticide registrars in developing countries. It will assist registrars in the evaluation and authorization of pesticides. The Toolkit can serve as a web-based registration handbook intended for day-to-day use. It also links to pesticide-specific information sources such as registrations in other countries, scientific reviews, hazard classifications, labels, MRLs, and pesticide properties.

# IOMC TOOLBOX: THE TOOLKITS

The IOMC Toolbox also includes six online toolkits:

- OECD Environmental Risk Assessment Toolkit

The screenshot shows the homepage of the OECD Environmental Risk Assessment Toolkit. At the top left is the OECD logo with the tagline "BETTER POLICIES FOR BETTER LIVES". To the right are links for "Login", "MyERAT", and "Help". Below the logo is a blue navigation bar with the title "OECD Environmental Risk Assessment Toolkit" and links for "New navigation", "Navigation history", "Map", and "Name". A breadcrumb trail shows "Home" and "Environmental Risk Assessment". The main content area is divided into three columns. The left column, titled "Next Step", has a "Main" section with radio buttons for "General Risk Assessment Process" and "Risk Assessment Process for Pesticides", and an "Examples of how to use the Toolkit" section with radio buttons for various assessment scenarios like "Risk Assessment of a textile dye" and "Air pollution: compliance with limits set in a permit". The middle column, titled "OECD Environmental Risk Assessment Toolkit Home", contains introductory text and a date "Tuesday, October 4, 2016". The right column, titled "More information", has a link for "ERAT Flyer". At the bottom of the page are links for "Comments", "Send a comment", and "Suggest a tool", along with a footer containing copyright information and various organizational logos.

This toolkit gives access to practical tools on environmental risk assessment of chemicals. It describes the general work flow of environmental risk assessment and provides examples of risk assessment. This toolkit also provides links to relevant tools developed by OECD and member countries that can be used in each step. The examples provide a roadmap of the process, showing the steps involved in each case and the tools which were used.

# IOMC TOOLBOX: THE TOOLKITS

The IOMC Toolbox also includes six online toolkits:

- UNIDO **Innovative Approaches** for the Sound Management of Chemicals and Chemical Waste Toolkit

**IAMC Toolkit**  
Innovative Approaches for the Sound Management of Chemicals and Chemical Waste

Search

- About IAMC
- Company guide
- Technical resources
- Case studies
- Sector guidelines
- Glossary

**ABOUT IAMC**

**STEP-BY-STEP APPROACH**

**TECHNICAL RESOURCES**

How to use the toolkit:

Toolkit structure:

Benefits:

The toolkit enables technical and business consultants to support manufacturers and industrial users of chemicals to systematically identify chemicals management hotspots and implement innovations which provide customers value and increase revenue while providing environmental benefits and protecting the health of workers and society. [More benefits...](#)

The toolkit consists of a [company guide](#), that provides a methodological approach in the form of six phases, supplemented by technical resources, sector guidelines and case studies.

Technical resource packages offer a wide range of technical solutions on the topics: [Green Chemistry and chemical process Improvement](#), [Hazard Management](#), and [Operational Excellence](#). Additional technical resources are available in the form of [sector guidelines](#), which target specific subsectors in the chemical industry (e.g. synthesis of polymers). Case studies of completed projects demonstrate the benefits resulting from applying the IAMC methodology.

Read the IAMC brochure in [English](#) / [in Spanish](#).

IAMC Final HD 20170928

**IAMC Toolkit**  
Innovative approaches for the Sound Management of Chemicals and Chemical Waste

The Toolkit enables manufacturers and industrial users of chemicals, and consultants to identify chemicals management hotspots and to implement innovations that provide customers value and increase revenue, while providing environmental benefits and protecting the health of workers and society. The Toolkit consists of a company guide that provides a methodological approach in the form of six phases, supplemented by technical resources, sector guidelines, and case studies.

# IOMC TOOLBOX: THE TOOLKITS

The IOMC Toolbox also includes six online toolkits:

- UNIDO **Chemical Leasing** Toolkit

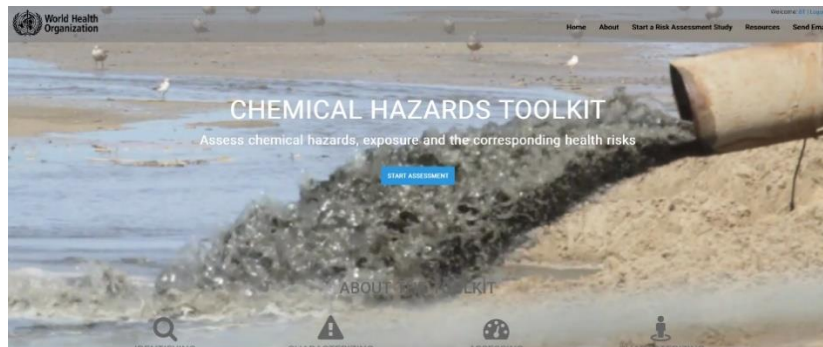
The Chemical Leasing Toolkit provides guidelines, materials, best practice case studies, and lessons learned from 10 years of work at UNIDO's Global Chemical Leasing Programme. The Toolkit enables users to systematically kick-start the implementation of Chemical Leasing at the company level. It also supports policymakers in understanding how best to approach Chemical Leasing in the policy arena.

The screenshot shows the homepage of the Chemical Leasing Toolkit. At the top left is the 'Chemical Leasing' logo. The main header is 'Chemical Leasing Toolkit'. Below the header are three navigation buttons: 'Essentials' (with a flask icon), 'Companies' (with a factory icon), and 'Policy makers' (with a leaf icon). On the left side, there is a vertical menu with the following items: 'Essentials', 'Companies', 'Policy makers', 'Case studies', 'Glossary', 'Useful links', and 'Contact'. The main content area features a 'Welcome!' section with a paragraph of text: 'The internet-based **Chemical Leasing Toolkit** provides guidelines, materials, best practice case studies and lessons learnt from 10 years of work at UNIDO's Global Chemical Leasing Programme. The toolkit is designed as an interactive online tool that aims to help [industry](#) and also [policy](#) professionals to become more knowledgeable about the Chemical Leasing Business Model and its effective and efficient use in practice. The toolkit enables users to systematically kick-start the implementation of Chemical Leasing at the company level. It also supports policy-makers in understanding how best to approach Chemical Leasing in the policy arena.' Below this is another paragraph: 'Chemical Leasing is a sustainable chemicals service solution that promotes the sound management of chemicals and chemical waste and supports the efficient use of resources, the minimization of wastes and emissions, and the reduction of health and environmental risks. [More...](#)' At the bottom right of the page, there is a link for 'Acknowledgements | Disclaimer'.

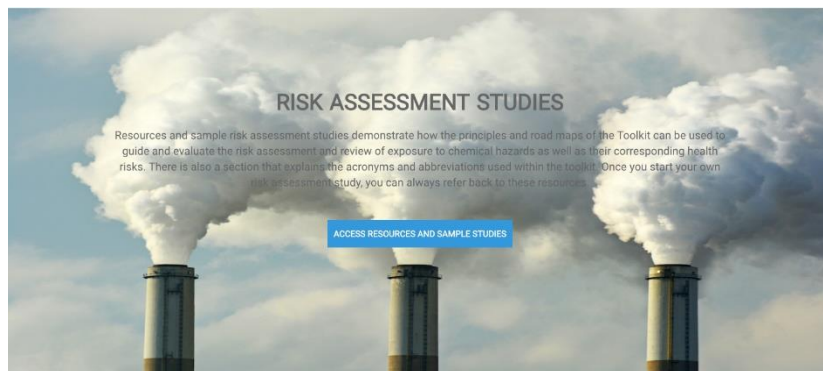
# IOMC TOOLBOX: THE TOOLKITS

The IOMC Toolbox also includes six online toolkits:

- WHO Human Health Risk Assessment Toolkit



The HHRA electronic Toolkit guides users through the process of assessing chemical risks to health. It is complementary to the WHO document with the same title, HHRA Toolkit. Both documents provide users with guidance to identify, acquire and use the information needed to assess chemical hazards, exposure and the corresponding health risks in their given health risk assessment contexts at local and national levels. This project has been funded with the support of the European Union.



The eToolkit is an interactive web-application based on the WHO Human Health Risk Assessment Toolkit: Chemical Hazards. Users are provided with web-based templates of roadmaps for conducting human health risk assessments. While being led through a step-by-step risk assessment process, users are provided with background information and are able to document the information they have gathered and the conclusions they have drawn in electronic templates.

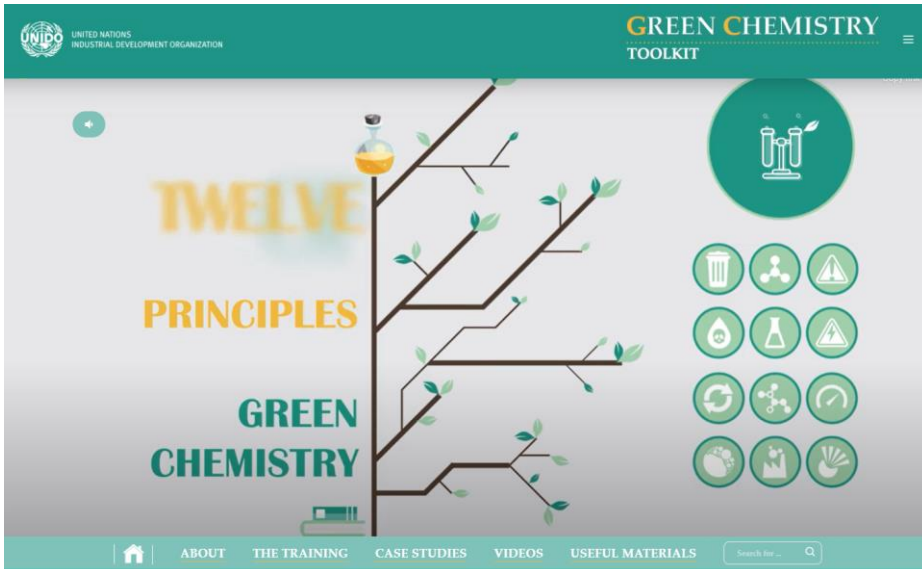


# IOMC TOOLBOX: THE TOOLKITS

The IOMC Toolbox also includes six online toolkits:

- UNIDO **Green Chemistry** Toolkit

The toolkit provides materials to deepen the understanding of Green Chemistry, including origins, technologies and how it drives environmental and economic goals for societal benefits. The toolkit aims to transform the trainees into Green Chemistry facilitators who will be able to disseminate Green Chemistry to their networks by using practical and tangible examples that encourage the change. It was developed under the Global Green Chemistry Initiative – a project led by UNIDO in partnership with the Center for Green Chemistry and Green Engineering at Yale University.



Visit the IOMC Toolbox:

<http://www.iomctoolbox.org/>



**IOMC**



INTER-ORGANIZATION PROGRAMME FOR THE SOUND MANAGEMENT OF CHEMICALS

A cooperative agreement among FAO, ILO, UNDP, UNEP, UNIDO, UNITAR, WHO, World Bank and OECD



The IOMC Toolbox project is funded by the European Union