

# SEIRICH

Chemical Risk Assessment



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## Methodology and algorithms

### A reference tool

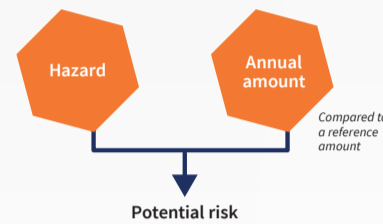
Seirich was developed in France in the framework of a public-private partnership. Since 2015, over 20,000 companies in numerous sectors have started using Seirich.

### First stage: Inventory

This is the most important stage. The inventory must be as exhaustive as possible: all products labelled according to CLP are concerned, along with chemical agents emitted by processes (welding smoke, dust, etc.).

### Second stage: Prioritise products

Risk assessment requires prioritisation. An indicator was created for this purpose: potential risk, which considers only hazards and quantities used over the course of a year, and not the specific conditions in which a product is used.



This risk is calculated for **health, fire/explosion and the environment.**

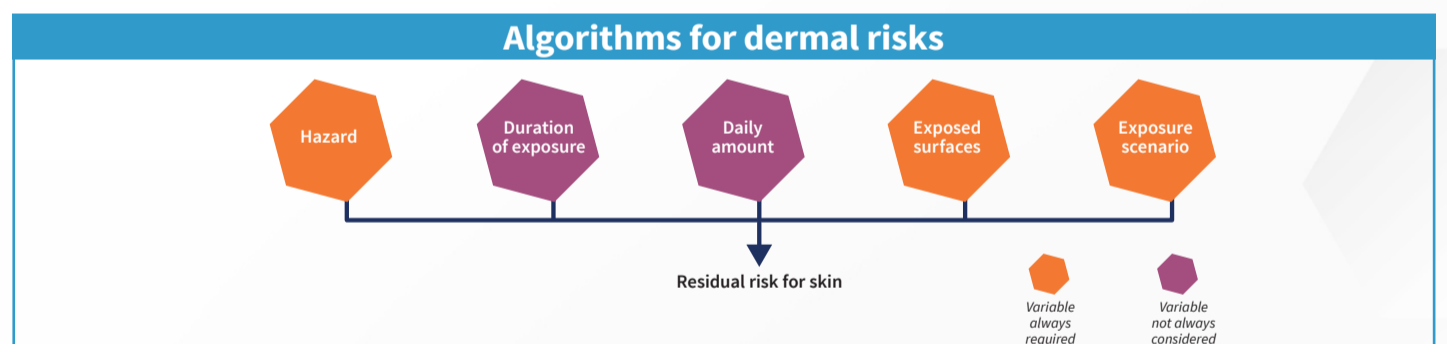
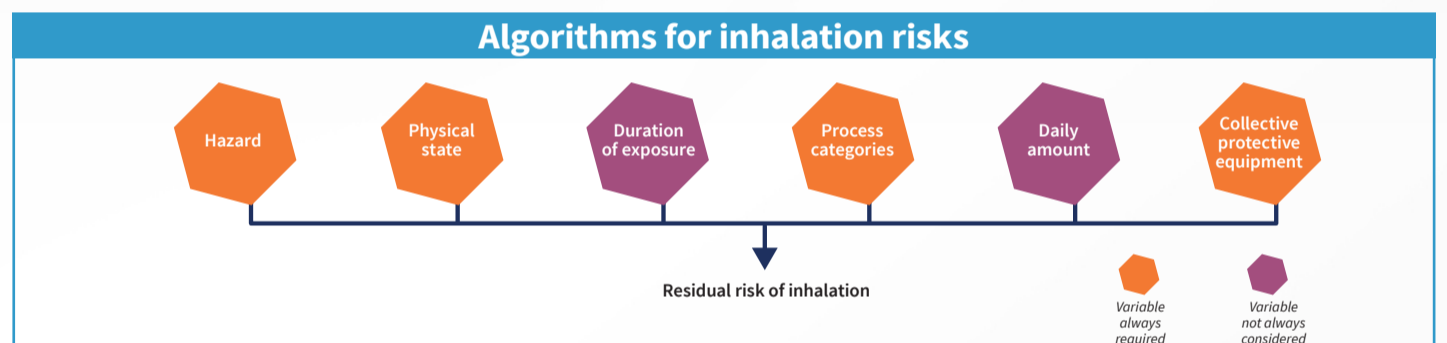


### Third stage: Residual risk assessment

Firstly, a map is established of the different workplaces and tasks where the chemical products are used.

Risks are then calculated for each combination of tasks and chemical products used as regards inhalation, cutaneous exposure and fire/explosion.

Example of map	
Establishment	
Production	
Finishing	
Gluing	
Cleaning	
Drilling	
Polishing	
Gel Coating	
Waxing	
Cleaning	
Gel coat spraying	
Reinforcing	
Gluing	
Cleaning	
Resin and fibre spraying	
Hand lay-up composite manufacturing	
Debulking	
Cleaning	
Tank filling	
Resin spraying	
Manual placing of fibre glass reinforcement	



### Fourth stage: Weighting residual risks

It is possible to take into account the user's expertise (medical advice, exposure measurements,...) and personal protective equipment.

### Fifth stage: Creation of an action plan

Beyond the assessment, Seirich is designed to assist companies in their day-to-day application of prevention strategies. Assistance in developing action plans is offered on the basis of the product data and the results of the risk assessment.

### A tool that evolves

Ample feedback from users is taken into consideration to optimise the assessments and features offered by the software. Download Seirich in French or English here : [www.seirich.fr](http://www.seirich.fr)

