

Methodology and algorithms

A reference tool

Seirich was developed in France in the framework of a public-private partnership. Since 2015, over 30,000 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.

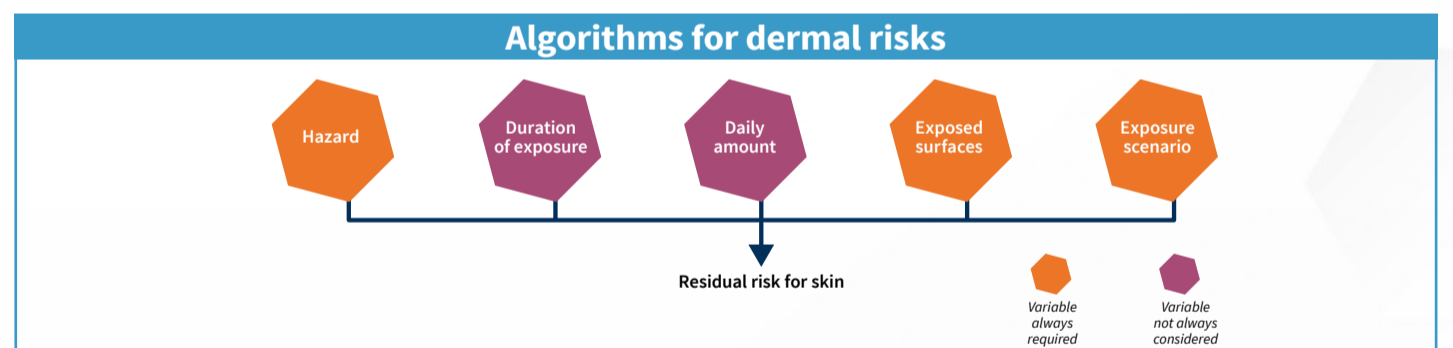
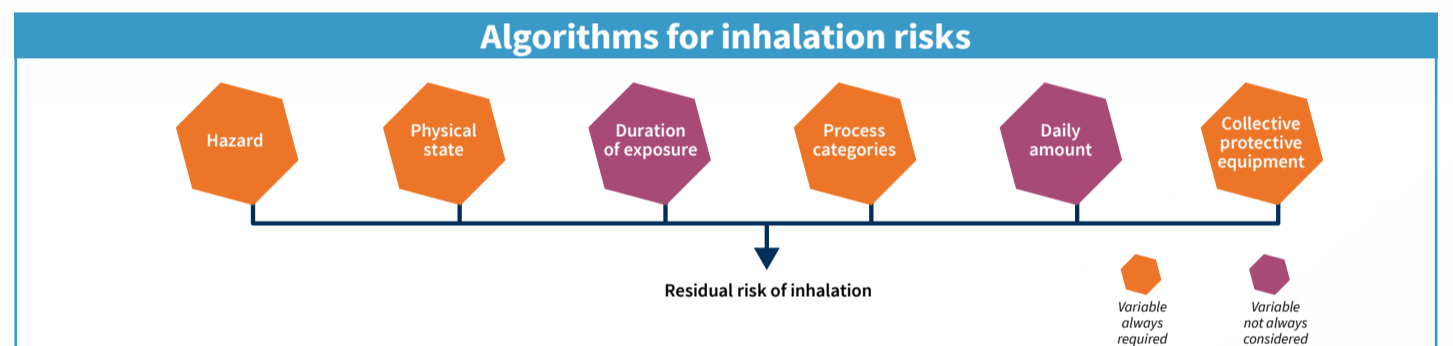


Third stage: Residual risk assessment

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

Risks are then estimated for each work situation (task and chemical products) 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