

Dear Reader,

Welcome to our Easy Guide Blast. In a few words we would like to introduce the content of our Beryllium-containing materials **EXPOSURE ASSESSMENT GUIDE**. But first, let's give you some context.

CONTEXT OF THE BE RESPONSIBLE PROGRAMME

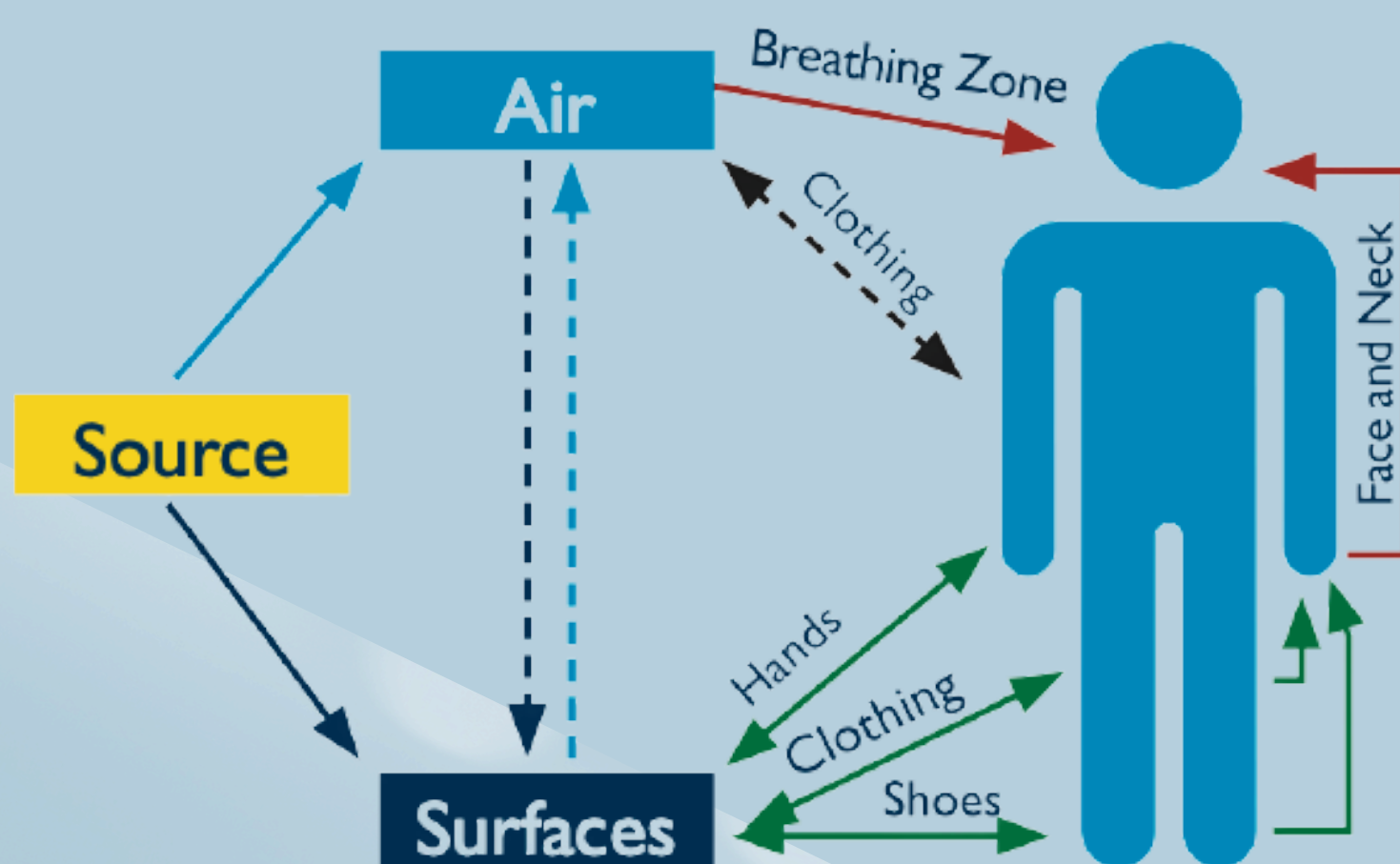


As you may know, the Be Responsible Programme was launched by the Beryllium Industry in an effort to advance the science of beryllium health and safety as well as protect beryllium workers and their close entourage.

The Beryllium Science and Technology Association, representative association of key players of the Beryllium industry, and its members stress that substantial uncontrolled workplace exposure to beryllium airborne particles can present a potential health and safety risk to employees.

We therefore want to share with you tools and measures to help you protect workers when working with Beryllium-containing materials. We will be sharing with you examples of the key information contained in our 12 guides to guide you in working with our Beryllium-containing materials.

OUR PERSONAL EXPOSURE ASSESSMENT GUIDE



Beryllium-containing alloys present a health risk by inhalation of airborne particles if handled improperly. However, the degree of hazard varies depending on the form of the product and how the material is processed. Exposure assessment is the process of estimating or measuring the concentration of an agent in the air, how long and how often exposure occurs to this agent.

The main goal of the exposure assessment is to determine if exposure profiles are "acceptable", "uncertain", or "unacceptable". In case the exposure profile is "uncertain", or "unacceptable", additional measures are required.

But how to implement a proper exposure assessment?

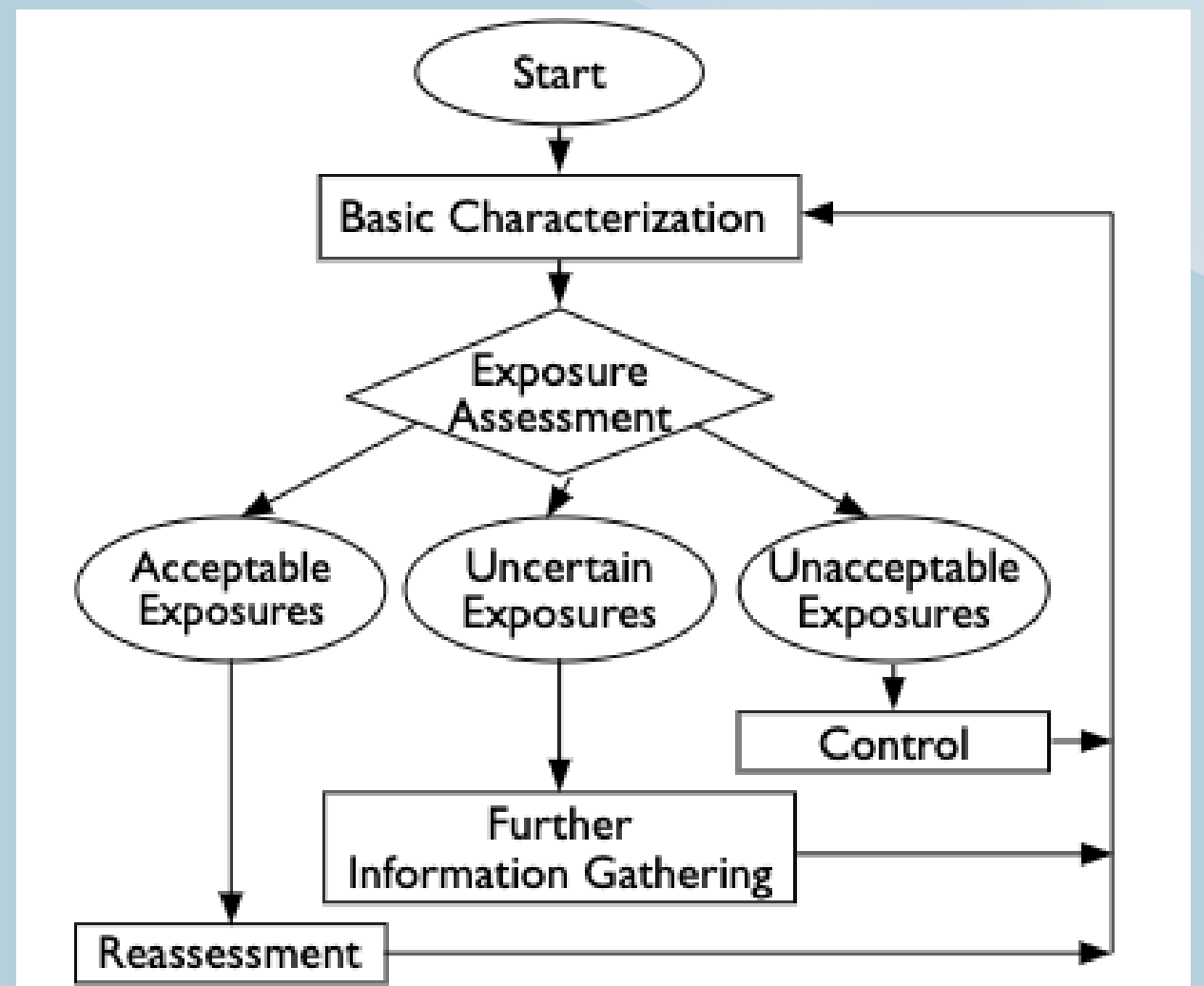
The **EXPOSURE ASSESSMENT GUIDE** provides you with information on how to conduct an effective exposure assessment. Let's take a closer look.

A correct exposure assessment is divided into two parts:

Qualitative Exposure Assessment

Qualitative exposure assessment shall answer questions like:

- Where are beryllium-containing materials processed?
- How much and how often is it processed?
- Are any processing tasks in the "Likely Inhalation concerns" category?
- How many workers are potentially exposed?
- How many SEGs (Similar Exposure Groups) have to be assessed?



Example of strategy for Occupational Exposure Assessment

Notes

Quantitative Exposure Assessment

Quantitative exposure assessment shall answer questions like:

- What is the airborne beryllium exposure profile?
- How does the airborne beryllium exposure profile compare to the REG (Recommended Exposure Guideline) or OEL (Occupational Exposure Limit) if implemented?
- How is the exposure profile (acceptable, uncertain, or unacceptable)?

BeST recommends using a comprehensive program, including worker training, engineering and work practices, to control airborne beryllium-containing particulate emissions and dispersions, and keep beryllium work areas clean. It is also important to keep beryllium-containing particulates out of the lungs, off the skin, off of clothing, in the work process, in the work area and on the plant site to reduce risk of adverse health effects.

Notes

WANT TO KNOW MORE?

Check out our dedicated website www.beryllium-safety.eu in all European languages or get in contact with us at info@beryllium.eu

WHAT ABOUT THE OTHER GUIDES?

Do not worry, we will provide similar Easy Guide Blast for all our Be Responsible Guides in the coming months on a regular basis so keep an eye out for our emails! Previous Easy Guide Blasts are available [here](#).