



An Antimony Workplace Monitoring Campaign

Why is this needed and how you can help?

THE NEED

Antimony (Sb) substances are under global regulatory scrutiny.

Discussions around the applicable classification, determination of potential risks and the definition of workplace exposure limits are on-going, with Germany recently issuing a new occupational exposure limit (OEL) value of 0.006 mg respirable Sb/m³.

Due to a lack of personal exposure data (data on the levels of antimony present in the workplace aerosols that workers are exposed to), scientific and regulatory discussions are all based on worst-case animal toxicological evidence which could lead to stricter regulatory requirements.

We need Sb producers' and users' help to collect a robust and standardized set of workplace exposure measurement data to demonstrate safe use under REACH, and compliance with current and forthcoming OEL values. The data collected in this Campaign will be included in a central database repository, in order to be used with the hazard evidence in future assessment and regulatory decision-making processes.

i2a has commissioned IOM, an independent research and consultancy organization (www.iom-world.org) to help deploy the various steps and tasks involved in the Campaign.

HOW CAN YOU HELP?

We need your help to collect exposure measurement data which:

- reflects workers current exposure (collected 2018 onwards),
- provides information on both the inhalable ($\leq 100 \mu\text{m}$) and respirable ($\leq 10 \mu\text{m}$) workplace Sb aerosol fractions,
- is collected and analyzed in a standardized manner to allow for aggregation and comparison,
- is accompanied by good quality contextual information to inform the measurement results,
- is obtained for various exposure scenarios from multiple production and user sites, and
- is made available for inclusion in an overall central repository.

MAIN BENEFITS FOR PARTICIPATING SITES

- ✓ Compliance with the EU Directive on Carcinogens and Mutagens (which require regular monitoring of suspected, presumed or confirmed carcinogens);
- ✓ High-quality data to check and demonstrate compliance with OELs, including the recent German OEL of 0.006 mg/m³; and
- ✓ Identification of the most efficient workplace controls measures to be put in place.

GENERAL TIMESCALES OF THE MONITORING CAMPAIGN



WHO IS PAYING FOR THIS WORK?

Due to the importance of this work to the Sb industry, i2a have agreed to cover the costs associated with common items to the work program: the workshop, the guidance documents, the templates, the database, the interpretation, the reporting, the overall management, etc. as well as particle size distribution and bio-monitoring data collection at selected sites.

The costs involved in the collection and analysis of the workplace inhalable and respirable exposure measurements at the sites, whether done internally or with external support from e.g. IOM, will be covered by the individual sites.

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I'M INTERESTED IN HELPING – HOW CAN I PARTICIPATE?

A number of options are available to companies who are interested in participating. These range from sites being solely responsible for the collection and provision of the measurement data results and contextual information, to IOM personnel undertaking the work on the sites' behalf. These options are summarized in the Table below, including indicative 'external costs' to the site, aimed to cover for IOM's intervention.

OPTION	1	2	3	4
Type of support from IOM	Minimum	Remote support from IOM	On-site training / support from IOM	On-site monitoring by IOM*
Participation in kick-off workshop	Site	Site	Site	Site
Reading, understanding and applying of the i2a Monitoring Guidance	Site	Site + Remote support from IOM	Site + Training by IOM	Site + IOM
Time commitment (up to 2 years)	Site	Site	Site	Site
Access to specified monitoring equipment	Site	Site	Site	IOM
Collecting respirable and inhalable air personal samples in the workplace	Site	Site + Remote support from IOM	Site + On-site support from IOM	IOM
Analysis of collected exposure samples	Arranged by site	Arranged by site	Arranged by site	IOM
Completing data templates and supplying them for inclusion in database	Site	Site	Site	IOM
Costs per measurement campaign (€)	Internal	Internal + IOM training (~4,100 €)	Internal + 1 day IOM training (~7500 €)	Internal + 2d IOM monitoring (~13,800 €)

* Sites where IOM will be proceeding to on-site monitoring are eligible for the measurement of Particle Size information and the collection of bio-monitoring data too. The cost associated with this will not be borne by the participating site but by i2a.

MINIMUM SUPPORT PROVIDED BY I2A (FOR ALL OPTIONS)

- ✓ Helpdesk-type support from/access to professional expertise to help implement the monitoring program at the site,
- ✓ Detailed Monitoring guidance document describing the standardized sampling, analytical and reporting methodology,
- ✓ Kick-off workshop to present the approach and provide practical training to interested experts,
- ✓ Standardized templates to record sampling results and relevant contextual information (with supporting guidance documents), and
- ✓ Development of a central repository to store the anonymized exposure measurement data.

