CEMAS – A CEFIC Sponsored Database for Chemical Exposure Management and Assessment

CEFIC LRI project – collaborative project team:

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CEMAS: CEFIC Exposure Management and Assessment System

Summary – a brief overview

- $\circ\,$ Why do we need another database?
 - Product stewardship and responsible care
 - Regulatory risk assessment
- $\circ\,$ Who do we hope will use CEMAS?
 - From COSHH essentials to eRisk
- o What does the database contain?
- Plans for the future...







Why Another Exposure Database?

- Drivers for CEMAS CEFIC involvement
- Shortages and gaps in data where it should be available:
 - "Responsible Care, ... committed to continual improvement in all aspects of health, safety..."
 - Risk assessment requirements -
 - $_{\odot}$ Within the existing substances programme
 - Where is the exposure data to support this process – on its own, or for modelling?
 - Chemical Agents Directive (CAD)
 - EU Chemicals White Paper









Aims of the CEMAS project...

- Seeks to provide a PC based guidance tool for SME users of chemicals that:
 - gathers exposure data and contextual information for structured decision-making on exposure (inh & derm)
 - Provides for the appropriate analysis of exposure data – summary stats & IRAS's SPEED
 - provides practical assessment of the suitability of exposure controls and advise when exposure monitoring may be required
 - is consistent with prevailing regulatory expectations
 - provides opportunities to target Product Stewardship
 - assists CEFIC sectors/groups measure performance
 - is aligned with the principles of Responsible Care
 - is available free

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Approach and stages, with consultation

- Previous knowledge, literature and experience of EDB and epi research
- Existing EDB and ongoing efforts towards data standards
- Stakeholder consultation
- $\circ\,$ Initial design prototype and testing
- $\,\circ\,$ Limited pilot test
- Revision and refinement









Why would SMEs use CEMAS?

- $\,\circ\,$ Currently for dermal and inhalation data
- We have decided to provide a decision aid to advise when monitoring may be appropriate
- ... and to generally encourage monitoring
- Based upon the UK COSHH Essentials scheme (<u>www.coshh-essentials.org.uk</u>)
- We use the term *eRISK*

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eRISK...

Uses information about:

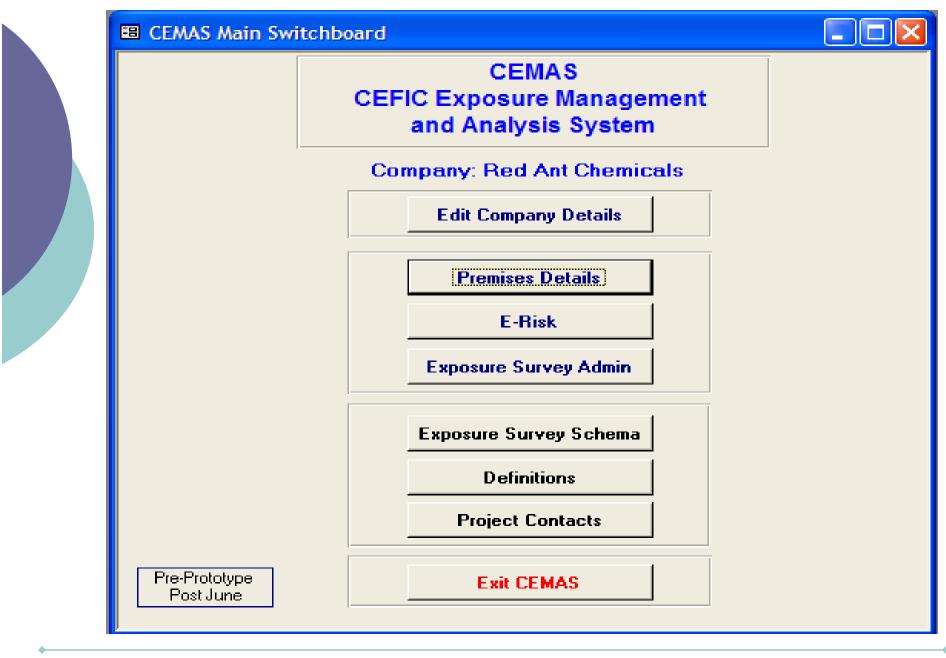
- Physical and chemical properties of substance
- Risk phrases assigned to product
- Quantity used.
- We ask about control measures and feedback if better controls needed
- Suggest monitoring
- All data stored in database











The Long-range Research Initiative



Industry, process, job, tasks

We collect information about:

- Industry (standardised and CEFIC sectors)
- Workplaces
- Jobs (standardised and local names)
- Processes
- Tasks
- Controls
- Exposure survey, data and context







Image:	04/03/2002 Updated 08/11/2002 10:41:30 Health and Safety Quality Assurance
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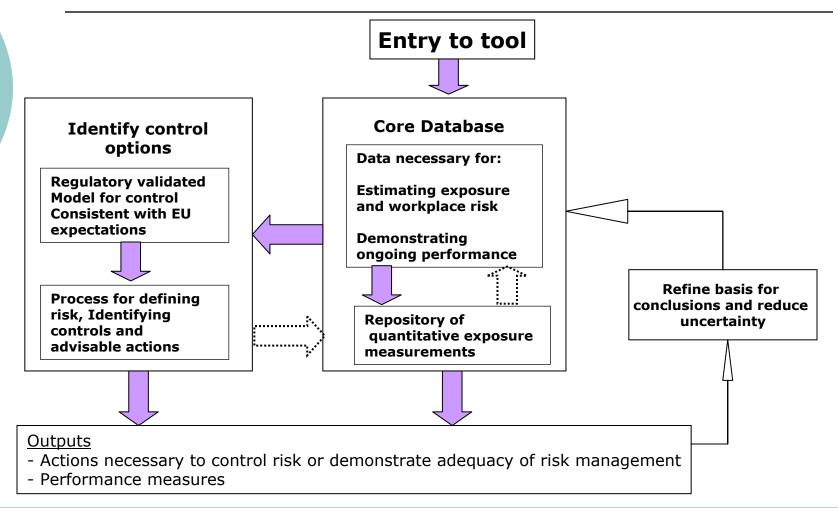
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ę	Survey Planning - Premises: Red Ant Forth Organics Plant
	Survey ID 24 Added Updated
	Survey Title Solvents Monitoring; PaintShop Paint Mix Areas, Check and Repair Workdeck and Wax Booth
	General Description Sampling and Analysis Strategy
	Start Date 24 February 1993 End 25 February 1993 Survey Completed ? 🔽
	Survey Authority Mr A Friend Survey Reason Compliance testing
	Describe Survey A survey was carried out to assess compliance with the occupational exposure limit for xylene used in the plant.
	Surveyor Institute of Occupational Medicine Analyst Institute of Occupational Medicine
	Survey Report File S:\24HourTemp\QUALITY CONTROL MANUAL.doc Pick/link report file
	Sample-Sets and Results
	1 of 6 Surveys at these premises First Previous Next Last New Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure

Universiteit

IRAS

The Long-range Research Initiative

Key elements of CEMAS operation







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Plans for interaction of CEMAS with Users

SMEs

SMEs register for free exposure evaluation and risk management (CEMAS) tool. Options to receive further supporting PS materials dependent on chemicals used & activities undertaken

Tool recognised by EU regulatory community as evidence of delivery of **CAD** responsibilities

Tool's database capable of being interrogated for relevant exposure information by user, or anonymised and shared with CEFIC

www.CEMAS.info

CEFIC should obtain a more accurate idea of the nature of chemical exposures in SMEs. Data also helps inform and refine Chemicals Policy.

CEFIC

Web hub supported and

Product Stewardship (PS)

materials from CEFIC and

populated by relevant

elsewhere

Provides CEFIC / NFs / Sector Groups with the opportunity to analyse core exposure information from registered users either on a voluntary basis or as part of any future performance indices for **CEFIC / NF members**









Plans to progress CEMAS

- Phase II next version of the database and stakeholder trials
 - Currently using version for other exposure studies at IOM – continuing refinement
 - Update structures and interface, checking and validation, layering, reports, SPEED and summary stats
 - 10 companies from two CEFIC sector groups to undertake fairly intensive usability trials
 - Continuing development of EDB standards
- Phase III Final production of free product and it's promotion will be the subject of a separate RfP –

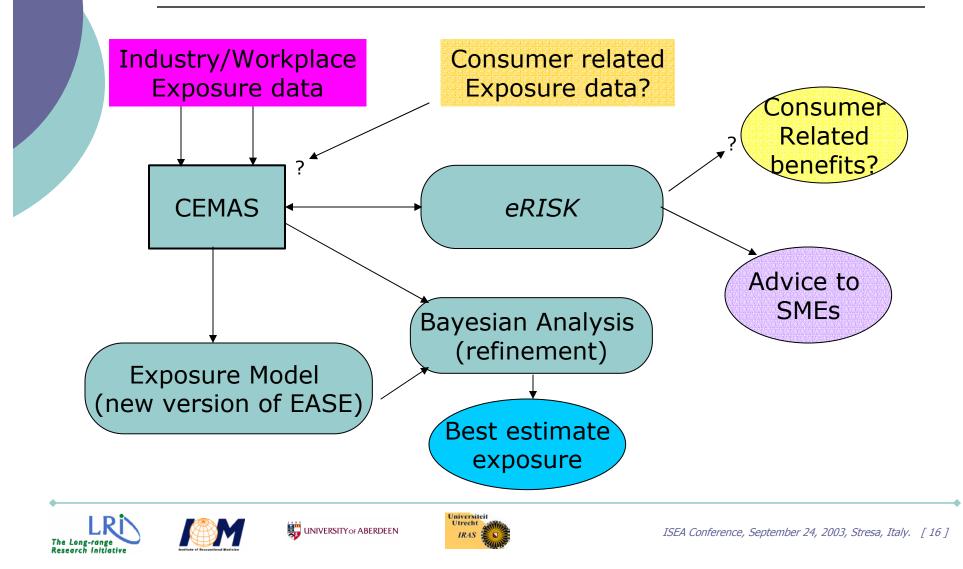


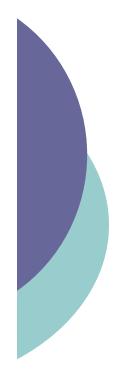




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CEMAS in context - vision of the future...





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