European Week for Safety and Health at Work 2003 "Dangerous Substances – Handle with Care"

By Hans Horst Konkolewsky, Director, European Agency for Safety and Health at Work¹

Dangerous substances are present in most workplaces. Exposure to dangerous substances occurs in many workplaces – also outside of the chemical industry. Asbestos in buildings, solvents in metalworking, diesel exhaust fumes in garages, viral hepatitis in hospitals, pesticides in the agricultural sector all present a wide variety of threats to human health.

Because of the enormous scope of the topic, statistics on dangerous substances are hard to come across, but we do know the following

- About 32 million workers in the EU almost a quarter of those employed! are exposed to cancer-causing agents
- 16 % of EU workers report handling dangerous substances and 22% of workers report that they are breathing in fumes and vapours at work for at least a quarter of their working time².
- Dangerous substances contribute significantly to the 350 million working days lost through occupational ill health and to the suffering of over seven million people who are victims of occupational illnesses³. Skin diseases and asthma are top occupational diseases in EU Member states and more often infectious diseases lead to long workplace absences.

The European Agency for Safety and Health at Work has identified risks from dangerous substances as a key topic in its work priorities and is working in several areas to address the challenges they pose.

To provide the right information on key safety and health topics to our different stakeholders is a main priority of the Agency. For researchers, dangerous substances information includes a Web page with links to criteria documents used in the decision-making process for setting exposure limits. For workers and employers, the Agency provides 'good practice' information, including to the substitution of organic solvents and asbestos. Political decision makers and social partners can find information about interesting prevention strategies and programmes in the Members states. The website also offers information from the EU and around the world on a wide range of related information including a special Web feature on occupational

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¹ The European Agency for Safety and Health at Work was set up by the European Union to help meet the information needs in the field of occupational safety and health. Based in Bilbao, Spain, the Agency aims to improve the lives of people at work by stimulating the flow of technical, scientific and economic information between all those involved in occupational safety and health issues.

² Third European Survey on Working Conditions 2000, European Foundation for the Improvement of Living and Working Conditions

³ Source: Eurostat

exposure limits. In addition, the Agency provides a forum where it is possible to put questions in any EU language to the global net community.

In 2003, the Agency and its network is organising a major awareness-raising campaign on the risks posed by dangerous substances across Europe including more than 30 countries. The European Week for Safety and Health at Work takes place in October, but events are happening throughout the year 2003. The slogan for the campaign is "Dangerous Substances – Handle with Care".

The key to the success of the campaign is to communicate in simple terms the knowledge that exists and the best practice that abounds to employers and employees, encouraging them to work together to identify and reduce risks.

The Agency launched its campaign at the European Parliament in Strasbourg on 13 May 2003 and all Member States, EU candidate and EFTA countries, the European Commission and Parliament, trade unions and employers' federations back it actively.

The campaign includes:

- Information packs in all official EU Member State and Candidate Country languages;
- Awareness raising posters and leaflets;
- A multilingual website (htttp://osha.eu.int/ew2003/, including examples of good practice;
- European Good Practice Awards for organisations that have most successfully dealt with the problem of dangerous substances;
- Special events across Europe to bring the key messages of the campaign to life in all organisations, large and small, public and private. Last year, when the Agency highlighted the issue of work-related stress, there were literally thousands of EU-wide events, many co-ordinated by the Agency's network of national Focal Points.

The campaign will culminate in October 2003 with the European Week for Safety and Health at Work. All safety and health institutions and organisations, trade unions, companies, managers, employees and safety representatives are invited to take part and organise their own events during this Week. These activities can include special audits and risk assessments in the workplace; training; distribution of information about dangerous substances; and schemes that encourage employees and their representatives to participate in the event, including linking up with other organisations.



Launch of the European Week 2003 on Dangerous Substances

8th International Symposium Athens, 19 May 2003

Hans-Horst Konkolewsky
Director

European Agency for Safety and Health at Work





What is the Agency?

- The European Union organisation responsible for occupational safety and health information
- Contributes to make Europe's workplaces safer, healthier and more productive
- Acts as a catalyst for developing, collecting, analysing and disseminating information in cooperation with its Europe-wide network of Focal Points

European Agency for Safety and Health



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Language English

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Auministrative Doar

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Calls for contractors

Job vacancies

Publications

Annual reports

Newsletters

Magazines

Reports

Factsheets

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Conference proceedings

Newsletter 14: EU committed to meeting safety and health challenges of enlargement

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23/04/2003: 2003 heralds many challenges for the Agency. And the key challenge is undoubtedly preparing for enlargement. Since its inception in 1996 the Agency has taken many important steps in promoting health and safety but none more so than working with the candidate counties to bring them to the same level as their EU counterparts. The recent enlargement seminar confirmed the willingness of all parties to work towards a safer and healthier new Europe.

More details

Preventing psychosocial risks at work: European perspectives



11/04/2003: The closing event in Bilbao on 25 November 2002 was jointly organised by the Agency and the Danish Presidency of the European Union. The day was structured around three morning workshops dealing with stress, bullying and violence, and a round table discussion in the afternoon. This Forum publication is based on the speeches made during the three workshops and the round table discussion that followed them.

More details

Communicating information about dangerous substances



08/04/2003: The Agency is producing a series of factsheets on occupational safety and health information about dangerous substances for the European Week for Safety and Health at Work 2003. Effective communication about the risks to workers' health and their management in the workplace is a common challenge for employers, workers, and their representatives. This factsheet presents points to consider for successful communication.

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News

16/4/2003

INT - World Day for Safety and Health at Work 28 April 2003 ₹

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EU - European Commission
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review of the Social Policy
Agenda - background
documents now
available

http://agency.osha.eu.int/





Dangerous Substances Situation in the EU

- 16% of EU workers report handling dangerous substances, 22% being exposed to toxic vapours
- Skin diseases and asthma top occupational diseases in EU Member States
- Infectious diseases lead to long workplace absences
- 16 Mio registered chemical substances 100000 marketed, 30000 commonly used
- for estimated about 20000 substances used in the workplace additional toxicological data are needed

European Agency for Safety and Health



Dangerous substances Agency activities

- Website information online good practice
 - Occupational exposure limits
 - Frequently asked questions
 - Good practice examples
 - Links to Member state information

European Agency for Safety and Health

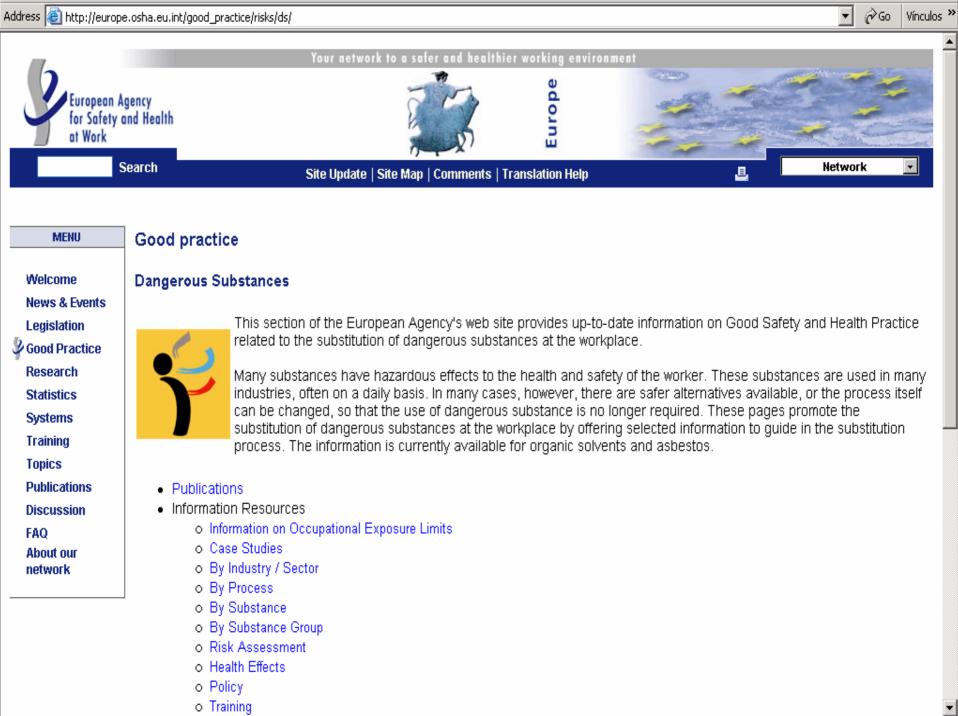
- <u>European Week 2003</u> activities and products
- Research activities <u>Criteria</u> <u>documents</u>



Website Information on Good Practice - Dangerous Substances

- Information on Occupational Exposure Limits
- Case studies
- By industry/sector
- By process
- By substance or substance group
- Risk Assessment
- Health effects
- Policy
- Training
- Frequently asked questions







What is European Week 2003?

- Europe's largest annual OSH information campaign
- Campaign objectives:
 - Increase awareness and understanding of risks in the workplace
 - Promote good practice solutions
- Theme: Prevention of risks posed by dangerous subtances
- Slogan: "Dangerous Substances Handle with Care"

European Agency for Safety and Health

at Work



EUROPEAN WEEK OCTOBER 2003

DANGEROUS SUBSTANCES HANDLE WITH CARE



EUROPEAN WEEK FOR SAFETY AND HEALTH AT WORK http://osha.eu.int/ew2003/





http://agency.asha.eu.int





Why dangerous substances?

- Potential risks affect all sectors
- The impact on workers includes:
 - Occupational and other work-related diseases
 - Accidents at work
 - Negative influence on the well-being of workers
- Business risks through reduced productivity and company liability
- DS risks can be prevented





Key messages

- Most workplaces are concerned
- Don't forget the substances produced during work (dusts, fumes, mists, microorganisms)!
- Substitution is possible
- Risk assessment is essential
- Information has to be brought to workplaces
- Information has to be translated for workers and employers into practical guidance
- Hints and links to guidance and practical solutions

European Agency for Safety and Health



Campaign model

- October 2003 Decentralised European campaign
- Partnership approach Agency, Focal Points, Social Partners, EU institutions, EU presidency
- EU, EFTA & Candidate Countries
- Agency Support
- European Good Practice Award
- Closing Event





EW 2003 Campaign material (1)

- Poster and EW leaflet
- Six Fact sheets
 - Introduction to DS in the workplace
 - Elimination and Substitution of DS
 - What users need to know
 - Respiratory sensitisers
 - Skin sensitisers
 - Biohazards







SSN 1661-2123

An introduction to dangerous substances in the workplace



Introduction

Dangerous substances are found in many excliptors. A recent survey loads that 16 % of workers in Europe reported handling headedun peopletch and 22 % being expected to tools expect. Exposure to dangerous substances can occur anywhere at work, on farms, in handlessent' shops, in motor-exhipte expell shops, at deventical plants.

Dangerous substance can cause many different types of harm. Some cause carrier, others can affect the ability to reproduce or cause the defects. Other substances may cause brain, damage, here to the nemous system, archina, and sits problems. The harm done by disegnous substances can occur from a single short exposure or by the long-term accumulation of substances in the body.

The theme for the European Wieek for Safety and Health at Work 2002 is the prevention of ratio from disnamus substance. The Agency is producing a series, of fartherest focusing on the communication of occupational safety and health-related information or disnapeus substances including biological agent. The farthere introduces the April sale in topic.

Legislation

Europeas legislation aims to minimize the health risks from dangerous substances in the servicions, European Union lev plants elimination and dustification at the top of the bierachty of control measures for protecting vertices from dangerous substance. The most important pieces of European legislation is this field are regulations on the protection of services (†) from the risks related to chemical agents, (*) can integer (*) find dring substance or vecoded dust), and but loogical agents (*) Nevertheless, regulations on damification and lately disks and services important information justicely labels, syntosis and safety data sheets) vasibile to the users.

These regulations have to be transferred into national legislation. Member States are entitled to include some additional or more stringent proteints to first the protection of workers, such as restrictions on use of some work processes or lower limit values, since the corresponding directives only lay down minimum requirement.

It is therefore strengtly recommended that you seek claffication of specific national legislation that may apply relating to the use of dangerous substances in the workplace. It is important to be aware that these significant on insure such as risk assessment, schrided measures and expounce limit also apply to the dangerous substances generated by the work procedure used, sample of all which are would dust or welding forms.

Prevention and control of exposure to dangerous substances

To protect workers' health from dangerous substances, employers are required to:

- . attent the risks
- ... take action to remove or reduce the tisks,
- monitor the effectiveness of the preventire measures and review the experiment

Aid: encourage

Rick asstance is a requirement under European legislation enuated in all Member States. Rick assessment means identifying what may cause harm so that preventive measures can be taken. Proper rick assessment in the basis for successful rick management. Training sonders on the basis of in its assessment for state work practice is an important part of tisk management. Trained workers can not only apply the rules but allow work more efficiently and postners a healthy and take working environment. The rick pead by a substance is determined by two factors, the substance's characteristics and the degree of legislations.

A few-step approach to tick assessment

- Make an inventory of the substances used in the processes in the storicplace and those generated by the process such as selding fames or wood dust.
- Collect information about these substances, i.e. the harm they can do and hose this can happen. Safety data theets (SS), which must be provided by the supplier of a chemical, are an important source of information.
- Assess exposure to the identified dangeous substance, looking at the type, intensity, length, frequency and coursense of exposure to workers, including combined effects of dangerous substances used together and the selected sits.
- Rank the severity of the established risks. This list can then be used to draw up an action plan to protect workers.







Factsheet 33: Introduction

- A strong EU legislative framework
- Employers have to assess risks due to dangerous substances
- Hierarchy of control measures with substitution as a priority
- Include substances generated during work
- Successful control brings benefits
- Occupational Exposure limits laid down in EU and Member States







Elimination and substitution of dangerous substances



Introduction

The theree for the European Week for Safety and Health at Work 2002 is the prevention of risks from dangerous substances. The Agency is producing a series of factsheets focusing on the communication of CSH information on dangerous substances. including biological agents. This factsheet introduces the process of eliminating or substituting dangerous substances.

Legislation

European Union law places elimination and substitution at the top of the hierarchy of control measures for protecting workers from the risks related to chemical agents, (*) cardisogens, [*] and biological agents. P) For cardinogens and mutagens, substitution regularments. are eyes more stringent and replacement has to be carried out. insofar as it is technically possible. Provisions for substitution are laid. down in national regulations related to the protection of workers and Wenter States are estified to include some additional or more stringest provisions for the protection of workers such as the restriction on use of some work processes, as the consupording directions only lay down minimum requirements.

Other regulations impose IU-wide restrictions on the marketing and use of certain dangerous substances and preparations, (*) including. for egargole, asbestos.

Under the new PU system for chemicals management (REACH) that: is currently being developed by the Commission, it is intended to introduce use-specific authorisation. For some substances.

It is therefore strongly recommended that you seek clarification of specific national legislation that may apply relating to restrictions in use and the substitution of dangerous substances in the workplace.

Elimination and substitution in the European control bierarchy

European legislation provides a hierarchy of measures to prevent or reduce the exposure of secreors to dangerous substances.

Birnination - the best way to reclude the risks connected with dangerous substances is to servove the need to use those substances. by changing the process or product in which the substance is used.

Substitution - If all minution is not possible, then the substitution, or replacement, of the hazardous substance or the process with one less dangerous under its condition of use is the text best option.

Control - if a substance or process cannot be eliminated or substituted, then exposure may be prevented or reduced by:

- . enclosure of the emitting process;
- control of the emission by better management of the processes:
- ... technical solutions to minimise the concentration in the exposure
- · organizational measures such as minimising the number of egood workers and the dutation and intensiveness of the RESIDENCE OF
- ... use of personal protective equipment

Elimination and substitution in practice

Changing from one substance to another is a three-stage process:

- 1. Identify the alternatives: find out all the options available to you. Look for alternative grocess methods to remove the need to use a substance entirely) and potential replacement substances (if... elimination is not possible). If the substance you with to replace is used in a widely applied process such as spray-painting or degressing, then the number of options sealable is likely to be
- 2. Compare the alternatives: carry out a risk assessment of all the alternatives, including the substance or process used, and compare your findings. Check relevant national legislation on occupational safety and health, as well as environmental and product safety legislation to ensure that the options are legal and compatible, and ascertain the minimum standards that you have
- 4. Make the decision: take the decision based on the regulatory needs, technological possibilities, potential implications for the quality of the products, costs, including the required investment, and training for see of the new product.

Any avoidable exposure to dangerous substances should be eliminated.

Some black on whose to look:

- Regarding hagards gaused by the process:
- a open processes, e.g. painting big surfaces, mising/compounding in open containers/sets
- processes generating dusts, expours or furnes or
- dispersing liquids in the air e.g. welding, spraying paint.

Related to the substance

- If you cannot change the work process, try to eliminate or avoid the exposure for substances that:
- . Increase fire and explosion risks:
- . leads to high exposure of workers;
- . results in exposure to many workers;





Factsheet 34: Substitution

- Substitution top priority EU strategy
- Where to start
- Guides for substitution
- Benefits from substitution
- A practical example: The Danish MAL-KODE for paints









SSN 1681-212

Communicating information about dangerous substances



Introduction

The Agency is producing a series of factheeth of bougastonal safety and health information about dangeous substance for the European Week for Safety and Health at Work 2000. Effective communication about the risks to worken' health and their management in the workplace is a forement challenge for employers, workers, and their representatives. This facilitiest presents point to consider for successful communication.

Legislation

EU regulations on damification and labelling (*) set the forms for obligations of producers of chemical substances. They determine important information (*) to be provided in a standardised way in safety labels, risk symbols and safety data sheets waitable to the users.

The directive solated to chemical approxit [1] specifies that employers that obtain additional information that is exceeded formit assessment from the supplier or other needly available sources. The employers also have to ensure that the escritors and/or their sepresentatives are informed and trained on:

- . the hazardous properties of the chemical agents handled;
- the level, type and duration of exposure and the discurraturess of spork involving such agents;
- appropriate precautions to safeguard themselves and other sorkers at the workplaces;
 the effect of risk-management procedures taken or to be taken;
- relevent occupational exposure limit values or biological limit

 and where available, the conductors to be drawn from any health surrellance and exposure assessment already undertaken.

Additionally, the employer thall also ensure that the workers are aware of the changes in these circumstances.

For workers likely to be exposed to carcinogers and mutagens (f) or certain biological agents (f), employers have to keep recode including information about exposure and health surrellance. Workers have to be precided with access to their personal data.

These regulations have to be transferred into national legislation. Member States are entitled to include some additional or more stringent provisions for the protection of workers, as the corresponding directions only lay down minimum negalements.

The future EU system of registratice, evaluation and authorisation of chemicals. REACH aims to increase the availability of relevant information about properties of chemicals, their environmental and health effects, intended uses and risk-reduction measures.

It is therefore strongly recommended that you seek clarification of specific national legislation that may apply relating to the use of dangerous substances in the workplace.

Labelling of chemicals

If a chemical substance or product is classified as dangerous, the manufacturer or the importer must put a danger label on the packaging with information about at least:

- the name or trade name of the substance or product and the name and address of the person responsible for placing it on the market;
- name(i) of the dangerous contents that lead to the danger danification;
- EC registry numbers for substances, for example the Einecs P; or Eines P; number;
- standardized indications of danger, danger symbols (%, risk indications (%-phases (%) and safety directions (%-phases (%).
 Provisions are also laid dawn for preparations containing several dangerous substances which require several symbols and risk necessary.

Risk symbols, risk RD phones and unley RD phones are indications of the substance's housed and of unley measures selaing to that substance. Both the R and 5 phrases are and by the discrives of the European Commans In Ys. They are used in the labelling of the packages and in safety data sheets to warm and guide the unique of the dangerous goods and preparations. Risk phrases are standardised presentations of the potential harms of the product for health and safety in normal handling and sus, for exemple RD! "Harmful in contract safet site is Risk Safety phrases and their combinations present presentive measures to be taken such as \$15. Pleas away from text."

For workplace use, extensive and standardized additional information has to be given in the safety data theets segarding health effects, contents of the product, appropriate postection measures and personal posteriore equipment.

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Factsheet 35:

Communicating information about DS

- Extensive regulations on classification and labelling of chemicals
- Labels and Safety data sheets
- Where to look for information on nonlabelled substances
- Examples of useful information systems
- Checklist for information to workers
- Checklist for good communication between employer and workers





EW 2003 Campaign material (2)

- A Report: Case studies of successful communication measures for the transmission of information relating to DS
- Magazine
- Website: dedicated multilingual information resource for the Week and in the future
- → http://osha.eu.int/ew2003/







EW 2003 MATERIAL GOOD PRACTICE AWARDS INFORMATION RESOURCES

European Week for Safety and Health at Work 2003

According to recent European research, 22% of EU workers report being exposed to toxic vapours for a quarter or more of their working time. In addition, 16% of employees have to handle dangerous substances as part of their daily work. Such exposures can harm workers' health in a variety of ways, with effects ranging from mild eye and skin. irritations to chronic lung disorders and cancer.

That's why this year's European Week for Safety and Health at Work is focusing on reducing the health risks of using dangerous substances.

European Week will take place during the month of October 2003, with each country deciding precisely which week is designated. However, the campaign itself will run throughout the year. The full European Week 2003 website will be launched in May and provide up-to-date information on the campaign.

Information provided by: European Agency for Safety and Health at Work

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Good Practice award scheme

- Recognition of outstanding contributions to risk prevention
- National nominations / European jury
- Good practices published: on Agency and national websites and booklet
- Awards presented at Closing event





good practice awards 2003

Successful prevention of risks from dangerous substances at work







EUROPEAN WEEK FOR SAFETY AND HEALTH AT WORK http://osha.eu.int/ew2003/





Good Practice Awards - criteria

- Real improvements
- Sustainability across time
- Good consultation between management and the workforce
- Compliance with relevant legislative requirements
- Possibility of transfer to other workplaces and other Member States

for Safety and Health



Colloquium and Closing event

- Closing event 24 November
 - Expert workshops
 - Colloquium policy perspectives
 - Good practice award ceremony





