



**Identify
dangerous goods**

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Why this guide

38 % of European enterprises report potentially dangerous chemical or biological substances in their workplaces according to EU-OSHA. Exposure to dangerous goods is linked to both acute and long term diseases and injuries, including respiratory and skin diseases, organ failure, occupational cancers, poisoning and suffocation.

To decrease the risk of exposure to these substances, Brady proposes a number of reliable and highly visible safety identification solutions.



**H₂S poisonous gas
may be present.**

No open flames.

**Wear necessary protective
equipment and proceed
with caution.**

Benefits of identifying dangerous goods

Clearly and visibly identifying dangerous goods in the workplace can help decrease the risk of exposure to these substances.

Exposure to dangerous goods can lead to extreme human suffering and huge costs for companies, as they are linked to both acute and long term diseases and injuries, including:

- respiratory disease including asthma, rhinitis, asbestosis and silicosis
- skin irritation and diseases
- organ failure
- occupational cancers
- poisoning
- suffocation



Compliance

The European Union has a comprehensive legislative framework to protect workers from the risks of dangerous goods in workplaces.

Main framework:

Directive 98/24/EC (Chemical Agents Directive, CAD) of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Directive 2004/37/EC (Carcinogens and Mutagens Directive, CMD) of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

Directive 89/391/EEC (OSH Framework Directive) of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work.



Related EU legislation:

Directive 92/85/EEC (Breastfeeding and Pregnant Workers Directive) of 19 October 1992 on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding

Directive 2009/148/EC (exposure to asbestos at work) of 30 November 2009 on the protection of workers from the risks related to exposure to asbestos at work

Regulation (EC) 1907/2006 (REACH Regulation) of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

Regulation (EC) No 1272/2008 (CLP Regulation) of 16 December 2008 on Classification, Labelling and Packaging of substances and mixtures.

There are also various directives on [binding and indicative occupational exposure limit values](#)



Risk assessment

Workplace risk assessment is essential for successfully preventing exposure to dangerous goods. It is also a legal requirement both at the EU and national level.

A risk assessment for dangerous goods should involve the following seven steps: (source: European Agency for Safety and Health at Work)

1. An **inventory** should be made of dangerous substances in the workplace and those generated by work processes, i.e. combustion processes, diesel exhaust in warehouses, dust from drilling or grinding (rocks, stone, wood, metals, etc.), fumes from welding or soldering, degeneration products from recycling and waste industries, etc
2. **Information** should be collected on the specific hazards, e.g. on chemical products from safety data sheets and on process-generated substances
3. The **exposure** to the identified dangerous substances should be assessed by looking at the type, intensity, length, frequency and occurrence of exposure to workers



4. An **action plan** should be drawn up that lists the steps that must be taken, in order of priority, to reduce the risks to workers. It should specify by whom, how and by when each step should be taken. The possibility of elimination or substitution has to be considered first.
5. Risk assessment should also take into account any **workers that may be particularly at risk**. The measures necessary to protect them and any additional training and information needs should be specified. Furthermore, workers can also be exposed, when doing maintenance or repair work or accidentally, to, for example, intermediary products from a chemical production process that is usually closed.
6. The risk assessment should be regularly **revised and updated**.
7. The **impact and improvement** of the preventive measures should be assessed, and they should be revised if necessary.

Tools to support companies with a dangerous goods risk assessment are available via www.healthy-workplaces.eu.



Solutions

Brady offers a number of industrial-grade, reliable identification solutions to inform and warn coworkers about dangerous goods or to protect them in order to reduce the risk of exposure.

- GHS/CLP labels
- Safety signs
- Truck signs (ADR)
- Packaging labels
- Floor marking
- Pipe marking
- Visual tagging
- Lockout/Tagout
- Spill Control
- Design your own signs and labels
- Print your own signs and labels



GHS/CLP labels

Companies in the European Union are required to identify and label all chemicals in the workplace in line with the GHS/CLP regulation.

Brady provides:

- reliable, blank or preprinted GHS/CLP labels that stay attached and remain legible when exposed to a wide range of chemicals
- an easy to use Brady Workstation app with free trial and predefined chemical descriptions, symbols and signal words
- on-site printing systems that enable users to print reliable and compliant GHS/CLP labels whenever they are needed

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Safety signs

All ISO 7010 safety signs are available to caution coworkers and inform them about mandatory personal protection equipment.

Brady provides:

- compliant preprinted safety signs on reliable, industrial grade materials that can resist harsh in- or outdoor conditions
- an easy to use Brady Workstation app with free trial that enables users to design their own signs on demand
- on-site printing systems to print any safety sign you may need using only one or two industrial grade, self-adhesive sign materials for in- or outdoor use

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NO SMOKING
NO FLAMES
NO SPARKS

PERSONAL PROTECTIVE
EQUIPMENT REQUIRED
IN COKING UNIT



Transport signs

ADR diamond shaped truck signs are available on reliable materials with a self-adhesive, magnetic or rigid backing to warn first responders about dangerous contents.

Brady provides:

- compliant preprinted ADR signs that can resist outdoor conditions
- an easy to use Brady Workstation app with free trial that enables users to design their own signs on demand
- printing systems and reliable, blank sign materials to print any ADR sign you may need on-site and on demand

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Floor marking

Reliable floor marking for low, medium and heavy traffic floors is available to separate dangerous goods storage areas from safe walking paths and vehicle traffic lanes.

Brady provides:

- reliable floor marking tape in a wide range of colours 3 quality levels for low, medium and heavy traffic floors
- easy to apply PaintStripe stencils to paint straight lines on almost any floor type

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Pipe marking

Easily identify the contents of factory pipes with colour coded pipe markers to increase maintenance efficiency and warn employees and first responders about potential danger.

Brady provides:

- reliable, preprinted pipe markers that can comply with any national or company colour code and with GHS/CLP legislation
- an easy to use Brady Workstation app with free trial that enables users to design their own pipe markers on demand
- printing systems and reliable, blank label materials to print a wide range of pipe markers on-site and on demand
- an on-site survey to help determine pipe marking needs in line with applicable legislation

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Visual tagging

Easily communicate and update safe or unsafe to use equipment and asset statuses after inspection.

Brady provides:

- reliable preprinted write-on tags to communicate the latest inspection date and a safe or unsafe use equipment status
- tough tag holders available for a wide range of equipment, designed to be attached without complicating the use of the equipment
- Safetrak inspection management software to brief inspectors on their smartphone and to support inspections in the field by immediately uploading inspection results to a centrally managed database

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Chemtag INSPECTION RECORD

Ref. No.: _____ Site Emergency Tel. No.: _____

CHEMICAL DETAILS

Chemical Name: _____
Trade Name: _____
Packaging: _____

GHS HAZARD SYMBOLS (insert tick applicable /)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAFETY EQUIPMENT REQUIRED (insert tick applicable /)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

BS EN 37 FIRE EXTINGUISHER AGENT TO BE USED (insert tick applicable /)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Immediate Action / First Aid: _____

Spillage Treatment: _____

Lockout/Tagout

Neutralise the flow of energy or supplies to any machine before maintenance starts to avoid exposure to dangerous goods or energy.

Brady provides:

- reliable, highly customisable, colour coded padlocks designed to last in challenging industrial conditions
- dedicated lockout devices to neutralise machinery by blocking in the off-position a wide range of valves, buttons, flanges and other energy or supply control points
- highly visible and customisable preprinted or on-site printable tags to communicate why machines are locked out
- Lockout/Tagout best practice procedure writing services, combined with an on-site survey to help identify Lockout/Tagout needs
- Link360 procedure management software to easily scale, approve, update and manage Lockout/Tagout procedures

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Spill Control

Proactively and reactively prevent spills from spreading on the work floor to avoid exposure to dangerous goods.

Brady provides:

- a wide range of highly absorbing, highly flexible meltblown polypropylene spill control solutions that can be used proactively and reactively
- spill containment reservoirs for drums and IBC's
- granules to absorb spilled liquids caught in cracks and crevices

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Print your own signs and labels

Need a wide variety of signs or labels? Tired of waiting on deliveries? Professional Sign & Label Printers from Brady cover almost any facility identification need.

Brady provides:

- mono- and multicolour printing systems for in- and outdoor identification
- full colour printing systems for indoor identification
- multicolour and cut capabilities to create a wide variety of shapes

[Get the printer selection guide](#)



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**We identify and protect people,
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