

ISBN 978-92-9191-944-4

Do you know what these pictograms mean?



CHEMICAL HAZARD PICTOGRAMS



The pictograms for labelling chemical products have changed. Prevent workplace injury and diseases by learning more about the pictograms.

Chemical products are used every day at work – not just in factories, but also in construction work or in offices – in things like cleaning products, paints, etc. The European Union's 2009 **classification, labelling and packaging (CLP)** regulation **introduced new warning pictograms**. The diamond-shaped pictograms indicate the nature of the hazard(s) associated with the use of a hazardous substance or mixture. On labels, the pictograms are accompanied by signal words, hazard statements, and precautionary statements, as well as product and supplier information.

Learn with Napo how to keep your workplace safe!

Watch "Napo in... Danger: chemicals!" at <http://www.napofilm.net/en/napos-films/chemicals>



Chemicals with this pictogram mean:

- ◇ Gas under pressure, may explode when heated
- ◇ Refrigerated gas, may cause cryogenic burns or injuries
- ◇ Dissolved gases



Even normally safe gases can be dangerous when pressurised.

This pictogram refers to **explosives, self-reactive substances** and **organic peroxides** that may cause explosion when heated.



Be aware of what these two similar pictograms mean. This one warns against **flammable gases, aerosols, liquids and solids**:

- ◇ **Self-heating substances and mixtures**
- ◇ Pyrophoric liquids and solids, that **may catch fire when in contact with air**
- ◇ Substances and mixtures which, **in contact with water, emit flammable gases**
- ◇ Self-reactive substances or organic peroxides that **may cause fire when heated**



If you find this pictogram on the label it means you are dealing with **oxidising gases, solids and liquids**, which can **cause or intensify fire and explosion**.



A substance or mixture with this pictogram has one or more of the following effects:

- ◇ **Is carcinogenic**
- ◇ **Affects fertility and the unborn child**
- ◇ **Causes mutations**
- ◇ Is a respiratory sensitiser, may cause **allergy, asthma or breathing difficulties when inhaled**
- ◇ **Is toxic to specific organs**
- ◇ Aspiration hazards, **may be fatal or harmful if swallowed or if it enters airways**



Know that you are handling a chemical that is **acutely toxic** in contact with skin, if inhaled or ingested, which may even be **fatal**.



Whenever you use a chemical with this pictogram on it, be aware that it is **corrosive** and can cause **severe skin burns and eye damage**. It is also **corrosive to metals**.



This pictogram means one or more of the following:

- ◇ **Acutely toxic (harmful)**
- ◇ **Causes skin sensitisation, skin and eye irritation**
- ◇ **Respiratory irritant**
- ◇ **Narcotic, causes drowsiness or dizziness**
- ◇ **Hazardous to the ozone layer**



This pictogram warns that a substance is **hazardous to the environment** and causes **aquatic toxicity**.



Napo is the hero in a series of animated films aimed at introducing workplace safety and health in a funny and memorable way. The Napo films highlight the hazards that can exist in the workplace, how they can be identified and what to do to improve safety and health at work. www.napofilm.net

The European Agency for Safety and Health at Work (EU-OSHA) is supporting the European Commission in their efforts to raise awareness about the changes in chemical signage for those who come into contact with chemicals in the workplace and their employers.

For more information visit <http://osha.europa.eu/en/topics/ds/clp-2013-classification-labelling-and-packaging-of-substances-and-mixtures>

<http://osha.europa.eu/en/general-faq/faq-on-dangerous-substances>

You can also visit the CLP section of the European Chemicals Agency (ECHA) at <http://echa.europa.eu/regulations/clp>

Supported by the Napo Consortium

