# Handling chemical substances

### http://www.rect.muni.cz/nso/

sekce Chemické látky – For foreigners

### Hazard classes

Physical hazard	Health hazard	Environmental hazard
explosives gases under pressure flammable substances etc.	acute toxicity skin corrosion skin irritation eye damage carcinogens mutagens etc.	acute / chronic aquatic toxicity



Nebezpečí při vdechnutí, KN 1

#### Pictograms for hazard classes

In handling chemical substances, it is the responsibility of everyone to observe:

- hazard symbols
- hazard statements
- precautionary statements
- protect human health
- protect the environment

**Hazard statements -** They are intended to form a set of standardized phrases about the hazards of chemical substances

https://en.wikipedia.org/wiki/GHS\_hazard\_statements

**Precautionary statements -** They are intended to form a set of standardized phrases giving advice about the correct handling of chemical substances

https://en.wikipedia.org/wiki/GHS\_precautionary\_statements

#### Signal word

- "Danger" or "Warning"
- are used to emphasize hazards and indicate the relative level of severity of the hazard, assigned to a hazard class.
- Some lower level hazard categories do not use signal words.

## Safety data sheet (SDS)

- it is intended to provide workers with procedures for handling that substance in a safe manner,
- includes information such as physical data (melting point, boiling point, flash point, etc.), toxicity, health effects, first aid, reactivity, storage, disposal, protective equipment, and spill-handling procedures.
- SDS formats can vary from source to source within a country depending on national requirements.

### **Final test**

- Test is available in IS.
- Limit to pass the test: 13/15.
- There is unlimited number of test repetitions.