

## ANSI Z129.1-1998

American National Standard Institute (ANSI) has published a voluntary labeling standard (ANSI Z129.1-1988) followed by most chemical manufacturers that includes:

- signal words - DANGER, WARNING, CAUTION (highly toxic materials shall be marked POISON)
- precautionary measures useful in preventing physical harm to the individual
- instructions in case of exposure
- notes to physician for emergency treatment
- instructions in case of fire or chemical spill
- instructions for chemical handling and storage

Example of an ANSI compliant chemical label

**K** CAS 68-12-2; C<sub>3</sub>H<sub>7</sub>NO; FW 73.1; Fp 58 °C (136.4 °F); bp 153 - 155 °C; mp -61 °C; d 0.948; **US Toxic. EU Toxic.** May cause harm to the unborn child. Harmful by inhalation and in contact with skin. Irritating to eyes. Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Teratogen. Combustible liquid. Readily absorbed through skin. Target organ(s): Liver; Kidneys.

**L** Store at XX °C.

**M** Product of USA. MSDS available. SLO3424. For R&D use only. Not for drug, household or other uses.

**A** **N,N-Dimethylformamide, minimum 99%**

**B** D158550-250ML

**G** Batch #: 010K0895

**H** Molecular Biology Tested

**I** Toxic

**E** **Toxic**

**F** **Toxic**

**O** SIGMA-ALDRICH

**M** SIGMA-ALDRICH

- Product Name and Description
- Product Number
- Further Descriptive Information
- Recommendations on Handling and Storage  
Storage temperatures indicated are for long-term storage of products. Products may be shipped under different conditions to reduce shipping costs, while still ensuring product quality.
- Hazard Statement
- Indication of danger.
- Lot Analysis
- Data on activity, purity, degree of hydration, etc., for this lot.

- I. Package Size  
Unless the material is described as pre-weighed, the package will normally contain at least the indicated quantity, and usually somewhat more. For some products, the actual quantity at time of packaging is also shown. The user should always measure the amount needed from the container.
- J. Lot Number
- K. Hazard Pictogram - see [Pictograms](#)  
Lets you know at a glance what safety hazards are involved in the use of this product.
- L. Further Hazard Information  
More complete description of actual hazards, handling precautions, and emergency management procedures.
- M. CAS Number  
Chemical Abstract Service number shown wherever available. CAS numbers vary in how specifically they define the material. We make every effort to provide the most specific CAS number which applies. Where a CAS number is provided for a mixture or solution, it is usually the CAS number of the solute or component referred to in the main label name.
- N. Chemical Formula and Formula Weight  
Unless water of hydration is indicated in the formula, the formula weight is for the anhydrous material.
- O. Risk and Safety Statements:  
Information is provided in multiple languages.
- P. Safety Data Sheet Available:  
A Safety Data Sheet is available for this product.
- Q. EC Number:  
EC Number (EINECS or ELINCS), products without an EINECS number will carry the warning statement, "Caution: Substance Not Yet Fully Tested."