

# Sodium hydroxide

## Substance Identity Profile

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### Identification

Substance name: sodium hydroxide (NaOH) (caustic soda)  
Chemical Formula: HNaO  
CAS no.: 1310-73-2  
EINECS no.: 215-185-5

### Purity of the substance

*For registration purposes, the purity declared will be  $\geq 80\%$  (w/w) (mono-constituent substance).* The composition is declared without water.

Sodium hydroxide (NaOH) as such is a white and deliquescent solid.

The bulk of NaOH is produced and sold as a solution in water, often as a 50% (w/w) solution.

NaOH is mainly produced in chloralkali plants using different technologies.

### Impurities

Most common impurities are sodium chloride ( $\leq 2\%$ ), sodium carbonate ( $\leq 1\%$ ) and sulfate ( $\leq 0.2\%$ ), The concentrations of other impurities is less than 0.1%.

The reference material for the registration dossier (IUCLID5 & CSR) will comply with:

- no substance that occurs in amounts  $> 1\%$  is classified to the extent that the amount present requires a change in classification relative to the existing EU classification for sodium hydroxide;
- substances which are classified by the EU as CMR Cat. 1 or 2, PBT or vPvB are not present in amounts  $> 0.1\%$ . No substances of very high concern are reported in quantities  $> 0.1\%$ ;
- substances for which Specific Concentration Limits, lower than above 1% or 0.1% have been set in Annex VI to CLP are not present in amounts that would require additional classification and labeling;
- substances for which limit concentrations are given in any other EU Directive or Regulation (such as Annex XVII of Reach), are not present in amounts exceeding those limits.

**Individual registering companies are advised to check their own impurities for specific concentration limits and to inform the Consortium about the identity of the impurities and the identified limits.**