

Substance Identity Profile Potassium Carbonate

IUPAC name or other international chemical name:	Potassium Carbonate
Other names:	Potash, pearl ash
EC number	209-529-3
EC name	Carbonic acid, dipotassium salt
CAS number	584-08-7
Molecular formula:	K_2CO_3

Related CAS numbers (for READ ACROSS): 298-14-6 (Potassium hydrogencarbonate)
7447-40-7 (Potassium chloride)

Substance Description:

Potassium carbonate is a white, odourless, crystalline powder, produced in different qualities, for example in technical, food and pharma grade.

Classification

Index N°: not listed in Annex 1 of the DSD (Dir 67/548/EEC)

Not listed in Annex VI, Table 3.1 or Table 3.2 of the CLP Regulation (EC) 1272/2008

Self-classification: Xi, Irritant, R36/37/38 Irritating to eyes, respiratory system and skin.

Purity of the Substance

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

Potassium carbonate as such is a solid with a typical purity of 99% (w/w).

Potassium carbonate is also produced as a solution in water, concentration range 30-70% (w/w).

Impurities

Most common impurities are potassium hydroxide, sodium carbonate, potassium bicarbonate. Metal ions and heavy metals may occur in the ppm range, no metal is present in amounts $> 0.1\%$.

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

1. No substance that occurs in amounts $> 1\%$ is classified to the extent that the amount present requires a change in classification
2. 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 reported in quantities $> 0.1\%$.

3. Substances for which Specific Concentration Limits, lower than 0.1 or 1% have been set in Annex VI to CLP are not present in amounts that would require additional classification and labelling.
4. 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 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.

Potassium carbonate according to Directive 67/548/EEC

Classification

Xi; Irritant

R36/37/38 Irritating to eyes, respiratory system and skin

Labelling

Indication of danger: Xi; Irritant

Risk phrases: R36/37/38 Irritating to eyes, respiratory system and skin


Safety phrases: S37/39 Wear suitable gloves and eye/face protection

Potassium carbonate according to Regulation (EG) No. 1272/2008 CLP (EU-GHS)

Classification

Skin irritation cat. 2:	H315
Eye irritation cat.2:	H319
STOT SE 3:	H335

Labelling

Signal word:	Hazard Pictogram:
warning	 GHS07: exclamation mark

Hazard statements:

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary statements:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly with soap and water after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P362	Take off contaminated clothing and wash before reuse
P403+P233	Store in a well-ventilated place. Keep container tightly closed.