

TECHNICAL DATA SHEET

Effective date: 11.2020

Sodium hydroxide flakes

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Sodium hydroxide
Composition	Mono-constituent substance
Origin	Inorganic
Chemical name	Sodium hydroxide
Chemical formula	NaOH
Description	Sodium hydroxide is a strong electrolyte (it is completely ionized both in crystalline state and in solution). It is not volatile, but rises easily in the air as aerosols.
Raw material category	Alkali, NaOH is used for different purposes in a variety of industrial sectors. The sector with the largest use of NaOH is the production of other chemicals, both organics (28%) and inorganics (16%). Other uses are in the sectors pulp and paper industry (12%), aluminium and metal industry (6%), food industry (3%), water treatment (3%) and textile (3%). The remainder is used in the production of soaps, mineral oils, bleach, phosphates, cellulose, rubber and others.

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Physical parameters

Appearance	Solid, flakes (hygroscopic)
Color	White, deliquescent
Odor	Neutral
pH	Strong alkali
Relative density at 25°C	2.13
Ignition temperature	Will not ignite
Boiling point	1390°C
Meting point	318°C
Solubility	Soluble in water with strong exothermic reaction upon dissolving: 52% (by weight) at 20°C 42% (by weight) at 0°C, soluble in methyl alcohol and ethyl alcohol. NaOH is miscible with water at all proportions but solidifies at 20°C if the concentration is higher than 52% (by weight), which can be considered the maximum water solubility at 20°C. NaOH has a very low vapor pressure (< 10 ⁻⁵ hPa at 25°C). Insoluble in ethyl ether.

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Sodium hydroxide (NaOH)	Min 98 %
Sodium carbonate (Na ₂ CO ₃)	Max 0.7 %
Sodium chloride (NaCl)	Max 0.15 %
Iron oxide (Fe ₂ O ₃)	Max 0.004 %

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in tightly closed containers, keep dry and avoid humidity (very hygroscopic).
Shelf Life	Min 3 years, in closed packaging under the recommended conditions.
Custom tariff	-

LEGISLATION

Certification	-
CMR substances	This product is free from substances classified as carcinogenic, mutagenic or toxic for reproduction (CMR) of category 1A, 1B or 2 under Part 3 of Annex VI to Regulation (EC) No 1272/2008.
Nanomaterials	This product is not considered as a nanomaterial, and doesn't contain nanoparticles as defined by the European commission and as described in EU n°1223/2009 and 2012-232 (ANSES).
Animal testing	This product has not been tested on animals.
EINECS	215-185-5
CAS	1310-73-2
REACH Registration no.	01-2119457892-27-0065

DISCLAIMER

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