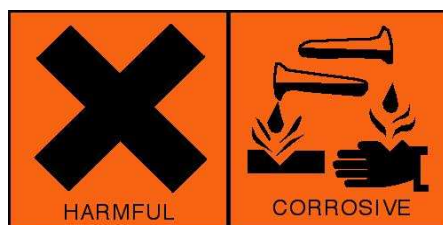


Safety (MSDS) data for sodium hydroxide



Click here for data on sodium hydroxide in [student-friendly format](#), from the [HSci](#) project

General

Synonyms: caustic soda, soda lye, lye, white caustic, aetznatron, ascarite, Collo-Grillrein, Collo-Tapetta, sodium hydrate, fotofoil etchant, NAOH, STCC 4935235, sodium hydroxide pellets, Lewis red devil lye

Molecular formula: NaOH

CAS No: 1310-73-2

EC No: 215-185-5

Annex I Index No: 011-002-00-6

Physical data

Appearance: odourless white solid (often sold as pellets)

Melting point: 318 C

Boiling point: 1390 C

Vapour density:

Vapour pressure: 1 mm Hg at 739 C

Specific gravity: 2.12

Flash point: n/a

Explosion limits: n/a

Autoignition temperature:

Water solubility: High (Note: dissolution in water is highly exothermic)

Stability

Stable. Incompatible with a wide variety of materials including many metals, ammonium compounds, cyanides, acids, nitro compounds,

phenols, combustible organics. Hygroscopic. Heat of solution is very high and may lead to a dangerously hot solution if small amounts of water are used. Absorbs carbon dioxide from the air.

Toxicology

Very corrosive. Causes severe burns. May cause serious permanent eye damage. Very harmful by ingestion. Harmful by skin contact or by inhalation of dust. Typical TLV 2 mg m⁻¹.

Toxicity data

(The meaning of any abbreviations which appear in this section is given [here.](#))

IPR-MUS LD50 40 mg kg⁻¹

Irritation data

(The meaning of any abbreviations which appear in this section is given [here.](#))

EYE-MKY 1%/24h sev

SKN-RBT 500 mg/24h sev

EYE-RBT 1% sev

Risk phrases

(The meaning of any risk phrases which appear in this section is given [here.](#))

R35.

Transport information

(The meaning of any UN hazard codes which appear in this section is given [here.](#))

UN Major hazard class 8.0. Packing group II. UN No 1823. EMS No 8.0-06.

Personal protection

Safety glasses, adequate ventilation, Neoprene or PVC gloves.

Safety phrases

(The meaning of any safety phrases which appear in this section is given [here.](#))

S26 S37 S39 S45.

This information was last updated on March 16, 2004. We have tried to make it as accurate and useful as possible, but can take no responsibility for its use, misuse, or accuracy. We have not verified this information, and cannot guarantee that it is up-to-date.
