Safety (MSDS) data for sodium chloride

Click here for data on sodium chloride in student-friendly format, from the HSci project

General

Synonyms: extra fine 200 salt, extra fine 325 salt, H.G. blending, salt, sea salt, table salt, common salt, dendritis, rock salt, top flake, white crystal, saline, halite, purex, USP sodium chloride
Molecular formula: NaCl
CAS No: 7647-14-5
EC No: 231-598-3

Physical data

Appearance: colourless crystals or white powder
Melting point: 804 C
Boiling point: 1413 C
Vapour density:
Vapour pressure: 1 mm Hg at 865C
Specific gravity: 2.16 g cm$^{-3}$
Flash point:
Explosion limits:
Autoignition temperature:
Solubility in water: 35.7 g/100g at 0C

Stability

Stable. Incompatible with strong oxidizing agents.

Toxicology

May cause skin, eye or respiratory irritation.

Toxicity data
(The meaning of any abbreviations which appear in this section is given here.)
ORL-RAT LD50 3000 mg kg$^{-1}$
ORL-MAN LDLO 1000 mg kg$^{-1}$
ORL-MUS LD50 4000 mg kg$^{-1}$
IPR-MUS LD50 2602 mg kg\(^{-1}\)
ICV-MUS LD50 131 mg kg\(^{-1}\)
SKN-RBT LD50 > 10000 mg kg\(^{-1}\)

**Irritation data**
(The meaning of any abbreviations which appear in this section is given [here.](#))
SKN-RBT 50 mg/24h mld

**Risk phrases**
(The meaning of any risk phrases which appear in this section is given [here.](#))
R36 R37 R38.

**Personal protection**

Not believed to present a significant hazard to health.

**Safety phrases**
(The meaning of any safety phrases which appear in this section is given [here.](#))
S26 S36.

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