# nickel(II) hydrogen citrate@nickel(2+) hydrogen citrate

## IDENTIFICATION NUMBERS

- **CAS:** 18721-51-2
- **EC/EINECS:** 242-533-3

## MORE INFORMATION

- **Molecular Formula:** C6H8O7.Ni

⚠ **Black list — Substances particularly hazardous to the environment or health**

## CLASSIFICATION AND LABELLING (Regulation 1272/2008)

### Symbols



**GHS08**

Respiratory sensitisation



**GHS09**

Hazardous to the aquatic environment

**Signal word: Danger**

### H Phrases

**H341** : Suspected of causing genetic defects

Muta. (Cat. 2) : Germ cell mutagenicity

**H372** : Causes damage to organs through prolonged or repeated exposure

STOT RE (Cat. 1) : Specific target organ toxicity - repeated exposure

**H334** : May cause allergy or asthma symptoms or breathing difficulties if inhaled

Resp. Sens. (Cat. 1) : Respiratory/skin sensitization

**H317** : May cause an allergic skin reaction

Skin Sens. (Cat. 1) : Respiratory/skin sensitization

**H400** : Very toxic to aquatic life

Aquatic Acute (Cat. 1) : Hazardous to the aquatic environment

**H410** : Very toxic to aquatic life with long lasting effects

Aquatic Chronic (Cat. 1) : Hazardous to the aquatic environment

**H360D** : May damage the unborn child.

Repr. (Cat. 1B) : Reproductive toxicity

**H350i** : May cause cancer by inhalation.

Carc. (Cat. 1A) : Carcinogenicity

*Nota H.*

### Labelling

| Concentration | Labelling |
|---|---|
| C >= 1 % | T R48/23 |
| 0,1 % <= C < 1 % | Xn; R48/20 |
| C >= 0,01 % | R43 |
| C >= 25 % | N; R50-53 |
| 2,5 % <= C < 25 % | N; R51-53 |
| 0,25 % <= C < 2,5 % | R52-53 |
| C >= 1 % | STOT repe., 1; H372 |
| 0,1 % <= C < 1 % | STOT repe., 2; H373 |
| C >= 0,01 % | Sens. cut., 1; H317 |
| | M=1 |

## Specific health risks

### According to IARC

Substances classified as carcinogens or mutagens Category 2 under the CLP Regulation (GHS), bearing H351 and/or H341 phrases. These are substances suspected of causing cancer or heritable genetic mutations in humans.

### Prohibited for pregnant workers

Substances prohibited for pregnant workers

### Carcinogens and mutagens (Regulation 1272/2008)

Substances classified as carcinogenic or mutagenic under Regulation 1272/2008

### Reproductive toxicants

Substances classified as toxic for reproduction under Regulation 1272/2008

### Sensitisers

Substances with skin or respiratory sensitisation potential

## Restriction/prohibition regulations

### Restricted substances under REACH

Substances listed in Annex XVII of the REACH Regulation (EC) No 1907/2006, subject to restrictions on their manufacture, placing on the market or use. Restrictions may be total or partial, limiting specific applications, maximum concentrations or user groups.

**NOTES**

Limitations: Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30: 1. Shall not be placed on the market, or used, - as substances, - as constituents of other substances, or, - in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: - either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, - the relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: ‘Restricted to professional users’. 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/ EC; (b) cosmetic products as defined by Directive 76/ 768/EEC; (c) the following fuels and oil products: - motor fuels which are covered by Directive 98/70/EC, - mineral oil products intended for use as fuel in mobile or fixed combustion plants, - fuels sold in closed systems (e.g. liquid gas bottles); (d) artists’ paints covered by Directive 1999/45/ EC; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. Source: Regulation 1907/2006 (REACH). Annex XVII