

Safety-Information

1907/2006 (REACH/RoHS)

INTRODUCTORY REMARK

Referring to the REACH-Definition stainless steel in the present form is a product. In accordance with the REACH and CLP-Legislation Material Safety Data Sheets and Safety-Information are only required for matters and mixtures.

The following informations are voluntary for the user of stainless steel products. In Chapter 16 we refer to the RoHS-legislation (Restriction of certain Hazardous Substances).

1. Product and Company Identification

Name of Product: Steel in form of blocks, bars and sheets

Name of Company: Friedr. Lohmann GmbH
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2. Hazards Identification

By conventional use of steel in solid form is no risk to expect. In case of mechanical or thermal handling e.g. cutting, grinding, welding etc., the appearance of hazardous dust or smoke is possible.

3. Composition / Information on ingredients

Description

Alloyed Steel as a block, bar or hotmilled sheet. The product could be protected with packaging material.

Composition

Depending on the steel grade, our products can consist of different alloying and accompanying elements. The alloy content of individual elements can be up to 75%.

The classification of the listed elements does not apply to our supplied alloyed steel but only to the contents of individual elementary metals.

Ingredients

Name	Productidentifier	%	Classification
Chrome	CAS-No. 7440-47-3 EC-No. 231-157-5	$0 < x < 30$	Not classified
Nickel	CAS-No. 7440-02-0	$0 < x < 75$	H351, Cat. 2

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Name	Productidentifier	%	Classification
	EC-No. 231-111-4 Index-No.028-002-00-7 028-002-01-4		H372, Cat. 1 H317, Cat. 1 H412, Cat. 3
Tungsten	CAS-No. 7440-33-7 EC-No. 231-143-9	$0 < x < 20$	Not classified
Cobalt	CAS: 7440-48-4 EG: 231-158-0 Index: 027-001-00-9	$0 < x < 11$	H302, Cat. 4 H317, Cat. 1 H334, Cat. 1 H350i, Cat. 1B H360f, Cat. 2 H413, Cat. 1
Molybdenum	CAS-No.: 7439-98-7 EC-No.: 231-107-2	$0 < x < 8$	Not classified
Manganese	CAS-No. 7439-96-5 EC-No. 231-105-1	$0 < x < 4$	Not classified
Vanadium	CAS-No.: 7440-62-2 EC-No.: 231-171-1	$0 < x < 10$	Not classified

Full text of H-phrases: see section 16

4. First Aid Measures

In case of an injury of the skin and the eyes medical advice is indicated.

After an increased Exposition with dust or smoke the concerned person should be taken to fresh air. In case of continued afflictions medical advice is indicated.

5. Firefighting Measures

The products of steel do not burn in case of normal ambient conditions. The dust of steel could be combustible.

6. Accidental Release Measures

Steelproducts are steady, so that there is no need for specific actions.

7. Handling and Storage

The common precautions can be recommended to avoid possible injuries by cutting of the packaging-band and sharp edges.

8. Exposure Controls / Personal Protection

In case of mechanical or thermal handling of steel the exposition of dust and smoke had to be under the obligatory limit. Local dust and smoke exhaustions should be arranged. In case of a deficient air ventilation a convenient inhalation protection for the workers should be arranged. When handling sheets and parts of steel, convenient personal protective equipment like gloves and eye protection should be used.

9. Physical / Chemical Properties

- Form: solid
- Colour: grey, metallic
- Odour: without odour
- Melting point [°C]: 1500 - 1550
- Density [Mg/m³]: 7,85

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10. Stability / Reactivity

Steel is under normal conditions stable. Steel can react with acid or bases.

11. Toxicological Information

Repeated or longer times of exposition to the smoke or dust could lead to an affection of the lung. Also possible is an irritation of the eyes and the respiratory tracts.

12. Ecological Information

No hazardous effects known.

13. Disposal Considerations

A long storage time does not change the properties of the material. The scrap of the steel can be recycled.

14. Transport Information

The common actions for cargo securing should be arranged.

15. Regulatory Information

Steel is no hazardous material and therefore not classified.

16. Other Information

The information in this data-sheet is the status-quo of our actual knowledge and experiences. The safety-data-sheet describes the products with regard to the safety requirements. The informations in this sheet have not the importance of a classification of the properties. Furthermore we declare, that our products comply with the RoHS-legislation

Full text for H-phrases:

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H350 – May cause cancer

H360f - Suspected of damaging fertility

H372 - Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H412 - Harmful to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life