



# Safety-Data-Sheet

1907/2006 (REACH)

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29.05.2015  
Rev. 2  
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## 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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**Division of information:** Environmental-, Health- and Safety-Management  
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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

Dependent on the sort of steel the total of the alloys is up to 35%. The concentration of particular elements is up to 20%.

### Ingredients


Name	Productidentifier	%	Classification	
Chromium	CAS-No. 7440-47-3 EC-No. 231-157-5	$0 < x < 20$	Not classified	
Nickel	CAS-No. 7440-02-0 EC-No. 231-111-4 Index-No.028-002-00-7 028-002-01-4	$0 < x < 4$		H351, Cat. 2 H372, Cat. 1 H317, Cat. 1 H412, Cat. 3
Wolfram	CAS-No. 7440-33-7 EC-No. 231-143-9	$0 < x < 20$		H228, Cat. 1
Cobalt	CAS: 7440-48-4 EG: 231-158-0 Index: 027-001-00-9	$0 < x < 10$		H334, Cat. 1 H317, Cat. 1 H413, Cat. 4
Molybdän	CAS-No.: 7439-98-7 EC-No.: 231-107-2	$0 < x < 8$	Not classified	



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Name	Productidentifier	%	Classification	
Mangan	CAS-No. 7439-96-5 EC-No. 231-105-1	0 < x < 4		H228, Cat. 2
Vanadium	CAS-No.: 7440-62-2 EC-No.: 231-171-1	0 < x < 4	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 injurances 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.

#### Limited components:

Component	Limit [mg/m <sup>3</sup> ]
Chrom-Compounds	2,0
Kobalt	0,5
Mangan	0,5
Nickel	0,5

#### 9. Physical / Chemical Properties

- Form: solid
- Colour: grey, metallic
- Odour: without odour
- Melting point [°C]: 1500 - 1550
- Density [Mg/m<sup>3</sup>]: 7,85

#### 10. Stability / Reactivity

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



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## **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.

Full text for H-phrases:

H228 - Flammable solid

H317 - May cause an allergic skin reaction

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

H351 - Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

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