

Safety information

in accordance with Article 32 of Regulation (EC) No. 1907/2006 (REACH)

Name of product: **Carbon / low-alloy steel** Material number: 101
Created on: 10 May 2011 revised: 30 Jun 2014 Date of issue: 30 Jun 2014 Page: 1 of 4

PRELIMINARY REMARKS:

Carbon / low-alloy steel in its present form is a product according to the definition of the REACH Regulation (1907/2006/EC).

In accordance with the REACH and CLP Regulations, Safety Data Sheets are required only for substances and mixtures according to Article 31 of the REACH Regulation or safety information referred to in Article 32 of the REACH Regulation.

The following information is voluntary information for users of carbon steel. To ensure a good readability, it is based on the known form of safety data sheets.

Carbon / low-alloy steel in its present form does not contain substances on the candidate list in concentrations exceeding 0.1 mass percent according to Article 59 of the REACH Regulation. If an input material is included in the candidate list, the customer is informed within 45 days of it as provided for in Article 33 of the REACH Regulation.

1. Name of product and company name

1.1. Product identifier

1.1.1. Designation / trade name: Carbon / low-alloy steel as e.g. slab, coil, plate and profile steel with alloying additions below the allowed limit according to the Directive 1999/45/EC

1.1.2. Additional designations

1.1.3. REACH Registration No: This is carbon steel which is supplied as a product, so no registration number is required

1.2. Use of the product: Use in the steel processing industry

1.3. Details on the supplier who prepares the safety data sheet

1.3.1. EC distributing company (manufacturer): Salzgitter Flachstahl GmbH

1.3.2. Company address Eisenhüttenstraße 99, 38239 Salzgitter

1.3.3. Mailing address 38223 Salzgitter

1.3.4. Country Germany

1.3.5. Telephone: +49 (0) 5341 / 21-01

1.3.6. Fax: +49 (0) 5341 / 21-39 21

1.3.7. Dept. responsible for information: Main Department of Occupational Safety
Tel. +49 (0) 5341 / 21-22 01
Fax. +49 (0) 5341 / 21-39 21

1.3.8. E-mail address (QP): szfg.reach@salzgitter-ag.de

1.4. Emergency Number: +49 (0) 5341 / 21-112 (plant fire brigade)
(occupied 24 h/d)

2. Possible hazards

During mechanical or thermal processing (e.g. welding, cutting, grinding), dust and fumes/vapours may occur which may involve inhalation health hazards (see limits in accordance with no. 8.2.1).

When handling the product, there is the risk of cuts.

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3. Composition/Information on ingredients

Carbon / low-alloy steel is available as billet, slab, coil, plate and profile steel. These carbon / low-alloy steels may contain alloying elements and other substances that are not classified as dangerous and are in accordance with the thresholds of the Directive 1999/45/EC or for which no accepted limits apply acc. to community guidelines.

The steel products referred to in point 1.1 represent no health risk to humans through inhalation, ingestion or skin contact in the form in which they are placed on the market. The alloying and by-elements are metallurgically bound solidly in the material. Health risks are to be taken into account during handling and processing if there is smoke/fumes and/or foreign air respirable dusts.

In light of current knowledge, this product does not contain any SVHCs according to Article 57 and 59 (1) of the REACH Regulation or substances that are listed on the candidate list according to Annex XIV in a concentration of more than 0.1%. Should there be any changes, we will notify our customers of this immediately unsolicited.

Products can also be supplied with a coating of corrosion protection oils.

4. First aid measures

4.1. General information: First-aid measures relate to dust and smoke.

4.2. Measures after inhalation: Fresh air supply (e.g. possibility of going "outside") and consult a physician, if necessary

4.3. Measures after skin contact: N/A

4.4. Measures after eye contact: Rinse opened eye lid with running water and consult a physician if necessary. No substance specific precautions required.

5. Fire-fighting measures

5.1. Product does not burn. Use extinguishing measures which are appropriate to environment.

6. Accidental release measures

6.1. No special action must be taken.

7. Handling and storage

7.1. Handling

During thermal and/or mechanical processing, suction at the machine/workplace, usually ventilation measures.

Please note TRGS 528 "Welding Work" and the TRGS 900 "Occupational Exposure Limits". Steel products can have sharp edges, so use cut-resistant gloves when handling.

7.2. Storage: N/A.

7.3. Certain uses, use restrictions: N/A.

8. Exposure limits and personal protective equipment

8.1. Additional information about the design of technical plants: Cp. No. 7

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8.2. Components requiring monitoring of workplace exposure limit values: Cp. 8.2.1

8.2.1 Limit values Germany *): Source: TRGS 900 "Occupational Exposure Limits" (Effective 2006, last amended and changed in 2014). The general dust limit of 1.25 mg/m³ (alveolar fraction) or 10 mg/m³ (respirable fraction). The general dust limit applies for iron, iron (II) or oxide (III).

*) The respective national laws/regulations and workplace exposure limit values are to be considered.

8.2.2 Additional information about the limits: The limits refer to the dust and smoke/fumes resulting during the processing under special working conditions.

8.3. Personal protective equipment:

8.3.1. Respiratory protection: If the measures carried out for the collection and ventilation exceed the threshold values according to the state-of-the-art, appropriate personal protective equipment is to be made available. Use appropriate respiratory protection for a short period.

8.3.2. Hand protection: Depending on the respective processing.

8.3.3. Eye protection: Safety goggles are to be worn according to the work process during smoke and dust, welding and burning.

8.3.4 Protection and hygiene measures: Do not eat, drink, smoke or take drugs while working.

Do not breathe fumes, dust, aerosols. Don't blow on or brush off contaminated clothing.

9. Physical and chemical properties

- Physical state: solid
- Colour: silvery grey
- Odour: odourless
- Density at 20°C: 7.7 – 8.3 g/cm³
- Melting point: 1325 - 1530 °C
- Water solubility: insoluble

10. Stability and reactivity

Carbon / low alloy steel is stable and non-reactive under normal atmospheric conditions.

Vapours can only occur in the molten state and during welding (i.e. when heated to very high temperatures).

Incompatible materials: Avoid contact with acids (danger of corrosion), formation of hydrogen possible.

11. Toxicological information

11.1 Repeated or prolonged exposure to iron oxide smoke can cause lung disease and reduce lung function.

Excessive exposure to dust/smoke can irritate the eyes and upper respiratory tract.

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11.2 Sensitisation: According to occupational medical experience, no sensitisation was detected when handling steel products acc. to no. 1.1 with the usual given brief skin contact.

12. Environmentally-related information

None of the substances contained in the steel will be released under normal or reasonably foreseeable conditions of use.

An exposure of humans and the environment is negligible under normal and foreseeable conditions of use including disposal.

13. Disposal considerations

13.1. Disposal: Return to the steel manufacturer via the scrap trade I

14. Transport information

14.1. Other information: No dangerous goods within the meaning of transport regulations

15. Regulatory information:

15.1. Safety, health and environmental regulations/legislation specific to the product:

none

15.2. National provisions:

none

15.3. Hazardous Incident (Reporting) Ordinance:

N./A.

15.4. Water hazard class according to VwVwS

(German Regulation on Substances Hazardous to Water):

N/A

15.5 Chemical safety assessment:

No chemical safety assessment is required for the product.

16. Other information

16.1 Other information:

Abbreviations

N/A. = Not applicable

Explanation:

This information in this safety information is based on the current state of our knowledge and experience.

The safety information describes the products with regard to the necessary safety measures.

The information does not represent a guarantee of the properties of the product.