

in accordance with article 32 of regulation (EC) No 1907/2006 (REACH)

Material number: 206

Product designation: FolaSal®, surface-coated thin sheet metal

with Z, ZE coating (hot-dipped or electrolytic zinc coating) and organic coating (polyester)

created on: 05/10/2011 revised: 03/04/2015 Issue date: 03/04/2015 Page: 1 of 6

1. <u>Designation of the product and company designation</u>

1.1. Product identifier

1.1.1. Designation/trade name: Surface-coated thin sheet metals with Z, ZE coating (hot-dipped or electrolytic zinc coating) and organic coating (polyester), e.g coil or sheet with alloy additives.

1.1.2. Additional designations: none

- **1.1.3. REACH registration number:** Not applicable. The unalloyed/low alloyed steel in its delivered form is an article for which a registration is not required.
- **1.2.** Use of the product: Use in the steel processing industry
- 1.3. Details about the supplier that provides the safety information

1.3.1. EU distributor (producer)Salzgitter Flachstahl GmbH

1.3.2. Address Eisenhüttenstraße 99, 38239 Salzgitter

1.3.3. Postal address 38223 Salzgitter

 1.3.4. Country
 Germany

 1.3.5. Phone:
 05341 / 21-01

 1.3.6. Fax:
 05341 / 21-39 21

1.3.7. Department that provides information: Central department occupational safety

Phone 05341 / 21-22 01 Fax 05341 / 21-39 21

1.3.8. Email address (competent person) szfg.reach@salzgitter-ag.de

1.4 Emergency number: 05341 / 21-112 (plant fire brigade) (covered for 24 h/d)

2. Possible hazards

2.1 Classification of the product:

Coated unalloyed/low alloyed steel in the present form is an article according to the regulation (EC) No 1907/2006 (REACH) and is not subject to the classification and labelling provisions of regulation (EC) No 1272/2008 (CLP).

2.2 Other hazards

Dust and smoke can occur during the mechanical or thermal processing (e.g. welding, cutting, grinding) which can create health hazards when inhaled (Please see below No 7.1 and 8.1).

3. Composition/Information about ingredients

3.1 Chemical characterization: Unalloyed/low alloyed steel, galvanized, organic coated

3.2 Steel ingredients:

EU No. Reg No.	CAS No.	Designation	Share	Classification Reg. (EU) No.1272/2008
231-096-4	7439-89-6	Iron	≥ 95 % in steel	-

01-2119462838-24

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3.3 Coating material:

 EU No.
 CAS No.
 Designation
 Classification

 Reg No.
 Reg. (EU) No.1272/2008

 231-175-3
 7440-66-6
 Zinc
 H400 , H410

 Polyester

3.4 Additional information:

In accordance with our current state of knowledge, this product does not include any substance of very high concern (SVHC) in accordance with article 57 and 59(1) of the REACH regulation in a concentration of more than 0.1%. If changes occurred, we would inform our customers immediately.

The article could also be supplied with a chemical passivation applied to the steel.

4. First aid actions

4.1. General Information: The first aid actions are based on dusts and smokes that

can be generated during the thermal or mechanical pro-

cessing.

4.2. Actions after inhaling: Fresh air supply (e.g. opportunity to move to the open air)

and possibly involve physician

4.3. Actions after skin contact: Wash with water and soap.

4.4. Measures after eye contact: Open lid and flush thoroughly with running water and pos-

sibly involve physician.

4.5. Measures after swallowing: Flush mouth and drink lots of water.

5. Fire fighting measures

5.1. Suitable extinguishing agents: Steel in a massive form is not flammable. Adapt fire extin-

guishing measures to the environmental fire.

5.2. Special hazards that are caused

by the substance or mixture none

5.3. Information for fire fighting: none

6. Measures in case of unintended release

6.1. Person related precautionary measures: Refer to Section 8.

6.2. Environmental measures: No special environmental protection measures required.

6.3. Cleaning processes: Collect residues and recycle.

7. Handling and storage

7.1. Protective measures for the safe handling

7.1.1 Information about safe handling: Steel products can have sharp edges therefore wear cut-

resistant gloves when handling.

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7.1.2 Technical measures: Exhaust at the machine/work place, normally aeration

measures, during thermal processing and/or mechanical

machining.

Adherence to the following is required: TRGS 528 "Technical welding works" and TRGS 900 "Work place limit values".

7.1.3 General hygiene measures: When using do not eat, drink or smoke. Wash the hands

before breaks and after work.

7.2. Conditions for safe storage

under consideration of intolerance: Avoid contact with acids (hydrogen development)

8. Exposure limitation and personal protection

- 8.1. Parameters to be monitored
- 8.1.1 Workplace limit values (TRGS 900) *):

CAS No.	Designation	ml/m³	mg/m³	Peak limitation
	General dust limit value			
	 Respirable fraction 		1,25	
	 Airborne respirable fraction 		10	2 (II)

- *) German limit values: Adherence to the respective national laws / regulations and workplace limit values is required.
- **8.1.2** Additional information about limit values: The limit value analysis is related to dusts/smokes that can

be generated during the processing and machining.

The risk of explosion or ignition of accumulated metallic dust needs to be considered with regard to the exhaustion.

8.1.3 DNEL and PENEC value: A DNEL value was compiled for iron as part of the CSR:

Long term, oral (general public): 0.71 mg/kg/day Long term, inhaling (general public): 1.5 mg/m³

8.2. Limitation and monitoring of the exposure

8.2.1. Suitable technical equipment: Refer to Section 7.

8.2.2. Respiration mask: Not required for the massive form. Suitable respiration

masks must be used for a short time if the limit values are exceeded during the mechanical and/or thermal pro-

cessing despite technical measures for aeration.

8.2.3. Hand protection: Depending on the respective processing and machining

wear cut-resistant gloves (EN 388) when handling metal

sheets.

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8.2.4. Eye protection: In accordance with the work processes, protective

glasses must be worn in case of smoke and dust devel-

opment during welding and burning.

8.2.5. Body protection: Safety shoes, work clothes

9. Physical and chemical properties

· Aggregate state: solid

Color: silver grayOdor: odorless

Density at 20°C: 7.7 – 8.3 g/cm³

Melting point: 1325 - 1530 °C (steel), 410°C (zinc)

Flashing point: not flammableWater solubility: insoluble

10. Stability and reactivity

10.1. Reactivity: Not reactive under normal ambient conditions.

10.2. Chemical stability: stable.

10.3. Conditions to be avoided: No hazardous conditions known.

10.4. Incompatible materials:

Avoid contact with acid and alkali solutions

(risk of corrosion), generation of hydrogen possible.

10.5. Hazardous decomposition products: None known.

11. Toxicological information

11.1. General information: The toxicity information is based on iron, which has the

largest share (>85%) in the entire product.

11.2. Acute toxicity No acute toxic influences proven.

Inhalative (rat) carbonyl iron

 $LC50(6h): >250 \text{ mg/m}^3$ (CSR)

Oral (rat) electrolytic iron powder

LD50 7500 mg/kg

11.3. Irritation/burn effect: Skin: No irritation effect (in accordance with OECD 404)

Eye: No irritation effect (in accordance with OECD 405)

(CSR)

Irritation effect due to mechanical rubbing.

11.4. Sensitization not sensitizing (CSR)

11.5. Toxicity when consumed repeatedly: Oral (rat) iron

LOAEL: 26 mg/kg/per day Inhalative (rat) iron

NOAEC: 5 mg/m³ (CSR)

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11.6. CMR effect (cancer causing, genetic makeup changing and reproduction endangering effect):

11.6.1. Cancer causing:No reference to cancer causing effect

11.6.2. Genetic makeup changing: No reference to genetic makeup changing effect (negative

test results for bacteria and cell culture test) (CSR)

11.6.3. Reproduction endangering: No data available11.7. Practical experience: No data available

12. <u>Environment related information</u>

12.1. General information: The environment related information is based on iron that

has the largest share (>85%) of the entire result.

12.2. Ecological toxicity: No reference to ecological toxicity

Aquatic, fish short term (Brachydanio rerio)

LLO (96h): >1000 mg/l (iron oxides) Further studies listed in the CSR

12.3. Resistance and degradability The methods for the determination of the biological degra-

dability cannot be applied to inorganic substances.

12.4. Biological accumulation potential: n/a. Iron is an essential element and its concentration in the

organism is self-regulating.

12.5. Mobility in the soil: n/a. Iron oxidizes in the long term in the environment into a

more stable iron(III) oxide.

12.6. Result of the PBT and vPvB

characteristic determination: Iron does not fulfill the criteria for persistent,

bioaccumulative and toxic.

12.7. Other harmful effects not known

13. <u>Disposal considerations</u>

13.1. Processes for waste handling:

13.1.1. Disposal/waste (product)Recycle steel

14. <u>Transport Information</u>

14.1. Further specifications: Not a hazardous material in accordance with the transport

regulations

15. <u>Information about statutory provisions:</u>

15.1. Regulations about the safety, health and environment specific statutory provisions for the prod-

uct: none

15.2. Domestic regulations: none

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15.3. Hazardous Incident Ordinance: N/A15.4. Water hazard class acc. to VwVwS: N/A

15.5 Substance safety assessment: A safety assessment is not required for this product.

16. Other information

16.1 Other information Abbreviations:

n/a = not applicable.

DNEL = no effect concentration (health)
PNEC = no effect concentration (environment)

16.2 Sources: CSR: Chemical Safety Report IRON,

[regulation (EU) No. 1907/2006 (REACH)]

Explanation:

The content of this safety information is based on the current state of our knowledge and experience. The safety information describes the products with respect to the safety requirements. The information does not have the meaning of characteristics guaranties.