

Safety data sheet for prepainted sheet steel

Prepainted sheet steel is defined as an article conforming to Regulation (EC) No 1907/2006 "REACH" and is thus not subject to the requirement of a safety data sheet. Relevant parts of equivalent information are nevertheless presented.

1. NAME OF PRODUCT AND COMPANY

Product: Prelaq
 Description: Prepainted sheet steel
 Field of application: Sheet steel for various structures, mainly in the building industry.

Manufacturer/Supplier: SSAB EMEA AB
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2. IDENTIFICATION OF HAZARDS

Description of hazards

Dust and fumes may be generated during working, e.g. during welding, cutting or grinding. Long term over-exposure to air pollutants in the form of dust or fumes may affect health and cause, for instance, chronic bronchitis.

The sheet steel is coated with paint. This should be taken into account during handling and working. Heating and working of prepainted material may cause irritating, hygienically harmful and toxic fumes.

3. COMPOSITION/INFORMATION ON CONSTITUENTS

Zinc coated and prepainted iron alloy with up to 1 % carbon.

Zinc coat

(sum of coating on both sides of the sheet)

Coating weight: 275 g/m² alt 350 g/m²

Coating composition:

Zinc: >99,6 % by wt
 Aluminium: <0,4 % by wt
 Trace elements*: <0,003 % by wt
 *Sum of Pb and Cd

Paint coat

Dried or cured paint consists basically of binder (coalescing agent), pigment, extender and additive. Different paint systems are applied, depending on the application.

Element	CAS-no	Other alloying elements	
		Conc %	Classification according to Regulation (EG) no 1272/2008 "CLP"
Manganese	7439-96-5	<2.5	-
Chromium	7440-47-3	<1	-
Molybdenum	7439-98-7	<0.5	-

Comments on composition: Other elements that may occur as minor quantities of alloying elements are phosphorus, niobium, titanium, aluminium, boron, silicon.

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4. FIRST AID MEASURES

Inhalation

Not applicable to prepainted steel in solid form. In the event of inhalation of dust and fumes during working, ensure good supply of fresh air. If complaint persists, get in touch with a doctor.

Skin

There are no specific symptoms associated with prepainted steel in solid form. Suitable care should be sought in the event of injury to skin.

Eyes

If the eyes are exposed to grinding dust/particles, carefully rinse with water and consult a doctor if the irritation persists. Immediately visit a doctor if a metal chip has penetrated the eye.

Ingestion

Not applicable.

5. FIRE FIGHTING MEASURES

Not applicable to steel in solid form. The paint coat is combustible. Finely dispersed material in the form of powder involves a risk of ignition and dust explosion in air. Use an extinguishing agent suitable for the surrounding fire and environment.

6. ACCIDENTAL RELEASE MEASURES

Not applicable to prepainted steel in solid form. To avoid the spreading of dust when collecting dust and fine particles, use a vacuum cleaner or wet the spillage with water and remove it. Use safety equipment in accordance with section 8 of the safety data sheet.

7. HANDLING AND STORAGE

Care should be taken to avoid injury caused by products delivered as stacked cut-to-length sheet or in the form of coils that may have sharp edges. Certain products are strapped with steel straps. The straps must not be used for lifting the products. Coils or bundled products may whip out and cause injuries when the strap is removed or if it should fail. The outer turn of a coil may be loose, which increases the risk of the straps failing. Suitable protective equipment, e.g. gloves and goggles, should be used and working routines should be introduced which take into account the risks that may arise if the straps should fail or when the strapping is removed.

Store away from acids.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Technical measures

Dust and fumes may be generated during working, e.g. during welding, cutting or grinding. The fumes may contain dust and particles covered by exposure limitations. Adequate ventilation and/or extraction should be installed to ensure that these limit values are not exceeded. If grinding must be carried out, wet grinding is recommended.

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Personal protective equipment

Respiratory protection:

If the ventilation is insufficient, a suitable approved respirator should be used during welding and mechanical working and in other situations in which dust and particles may occur.

Eye protection:

Use protective goggles during welding and mechanical working and in other situations in which dust and particles may occur.

Skin protection:

Use protective gloves of a suitable material as protection against the risk of cutting injuries

Exposure limit values:

For exposure limits refer to the national legislation of the country where the product is used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	Various colours
Smell:	None
Form/state:	Solid
Density:	7700 - 7870 kg/m ³
Melting point:	1460°C - 1530°C

10. STABILITY AND REACTIVITY

Stability

Stable in normal condition.

Reacts with

Reacts with strong acids, and hydrogen is then one of the substances emitted.

Other information

Metal fumes may occur when the material is heated to high temperatures, e.g. during cutting, welding and melting.

11. TOXICOLOGICAL INFORMATION

Inhalation

Not applicable to prepainted steel in the product forms delivered. Dust or fumes containing complex and mixed oxides of iron and alloying elements may occur on mechanical working, cutting and welding of steel, and some of these may be hygienically harmful or toxic. Some of the metal oxides may give rise to metal fume fever. Long term over-exposure to air pollutants in the form of dust or fumes may affect health and cause, for instance, chronic bronchitis. Heating and working of prepainted material may give rise to irritating, hygienically harmful and toxic fumes.

Skin

Not applicable to prepainted steel in the product forms delivered.

Eyes

Not applicable to prepainted steel in the product forms delivered. Dust or fumes may be formed during mechanical working, cutting or welding of prepainted steel, and these may cause eye irritation. Metal chips may cause eye injuries and give rise to the risk of permanent vision impairment.

Ingestion

Not applicable.

Other information

Risk of cutting or crushing injuries during handling.

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12. ECOLOGICAL INFORMATION

No ecotoxicological effects are known for the product as a whole. Environmentally harmful compounds may form during working, e.g. welding.

13. WASTE MANAGEMENT

Steel scrap is a recyclable material. There are established procedures for waste management and recycling. Get in touch with an authorized recycling company.

14. TRANSPORT INFORMATION

The products are heavy and it is therefore important to provide secure lashing.

15. REGULATIONS - CLASSIFICATION AND IDENTIFICATION

Defined as an article conforming to Regulation (EC) No 1907/2006 "REACH".

16. OTHER INFORMATION

References to EU legislation

- Regulation 1907/2006 on the registration, evaluation, authorization and restriction of chemical substances, "REACH"
- Regulation 1272/2008 on classification, labelling and packaging of substances and mixtures "CLP"
- Directive 67/548/EEC on the classification, packaging and labelling of dangerous substances.
- Directive 99/45/EC on the classification, packaging and labelling of dangerous preparations

General information

The information in this safety data sheet is based on the knowledge and experience now accumulated at SSAB. The safety data sheet describes the products with regard to safety aspects.

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