

Safety Data Sheet For the use of an Article

(Not required by the REACH – GHS Regulations)

SECTION 1: Identification of the article and of the company/undertaking

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Supersedes date 27/09/2012

1.1. Product identifier

Brand name: **Estetic® Mat**
Organic coated steel for indoor building and general industry

Reach status: Article

Company: **ArcelorMittal S.A**
19, avenue de la Liberté
L – 2930 Luxembourg

Telephone: + 352 47 92 1

E-mail: fce-msds@arcelormittal.com

Website: www.arcelormittal.com

1.2. Relevant identified uses of the article and uses advised against

Identified uses: Cappings, ceilings, indoor panels

1.3. Details of the supplier of the safety data sheet

Department supplying safety information: ArcelorMittal Health & Safety – Product Safety
19, avenue de la Liberté
L – 2930 Luxembourg

E-mail: rip.reach@arcelormittal.com

1.4. Emergency telephone number

Emergency Fax: +352 4792 89 3756

SECTION 2: Hazards identification

Effects on human health:

Skin contact Not applicable.

Eye contact Not applicable.

Inhalation Respect of the occupational exposure limit values noted in this SDS. See section 8.

Ingestion Not applicable.

Main hazard to the environment: None.

Prevention: Safety gloves and glasses must be worn during handling.

SECTION 3: Composition/information on ingredients

Chemical composition (percent by weight):

Steel substrate	Metallic Coating	Surface Treatments	
		Primer/Top Coat/ Back coat	Others
<u>Main elements:</u> Fe > 95%, Mn < 1.7%, Al < 2%.	- Pure zinc	Inorganic salts, and	- Adhesive : Rubber or acrylic stick and PolyEthylene
<u>Other elements:</u> Si < 0.6%, P < 0.1%, Nb < 0.09%, Ti < 0.3%.	- Electrogalvanised steel	1: Primer Resin PolyESTer – Melamine 2: Top coat Resin PolyESTer - Melamine 3: Back coat Resin PolyESTer – Melamine	- Thermosetted stick : PolyEthylene - Co extruded : Modified PolyEthylene

European Standards :

Designation	Standard	Commercial Sheet
Cold rolled low carbon steel flat products for cold forming	EN10130	B10 + F20
High Strength Low Alloy Steels	EN10268	B20 + F20
Continuously hot-dip coated steel flat products	EN10346	E20, B30 + F20
Electrolytically zinc coated cold rolled steel flat products for cold forming	EN10152	E10 + F20

Other information:

Former names: Estetic® Ceiling

SECTION 4: First aid measures

Skin contact:	Not applicable.
Eye contact:	Not applicable.
Inhalation:	Not applicable.
Ingestion:	Not applicable.
Specific first aid:	Not applicable.

SECTION 5: Fire fighting measures

General fire hazards	Non-flammable.
5.1. Extinguishing media	Use extinction means suitable with the stored products in the vicinity.
5.2. Special hazards arising from article	Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

6.2. Environmental precautions

Article generates no particular environmental hazards.

6.3. Methods and material for containment and cleaning up

Not specifically concerned.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Delivered packaged. Normal precautions should be taken to avoid injuries possibly by sharp edges or by release of tension when breaking the straps.

7.2. Conditions for safe storage, including any incompatibilities

Article has not to be stored where acids are present.

Precautions to be taken during storage and packaging:

Related to packaging: safety gloves (cuts), glasses and shoes must be worn.
When storing sheets, the risk of accidentally slipping should be kept in mind.

Packaging materials:

Steel sheet and/or paper + tightened strip.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits during welding, grinding, cutting and recycling by remelting:

United Kingdom. Workplace Exposure Limits (WELs) (EH40/2005), as amended through December 2011

Components	Type	Value	Form
Dust	TWA	10 mg/m ³	Inhalable
		4 mg/m ³	Respirable
Manganese and its inorganic compounds	TWA	0.5 mg/m ³	As Mn
Aluminium metal	TWA	10 mg/m ³	Inhalable as Al
		4 mg/m ³	Respirable as Al
Silicon	TWA	10 mg/m ³	Inhalable
		4 mg/m ³	Respirable
Decomposition	Type	Value	Form
Iron oxide	TWA	5 mg/m ³	Fume as Fe
	STEL	10 mg/m ³	Fume as Fe
Aluminium oxides	TWA	10 mg/m ³	Inhalable as Al
		4 mg/m ³	Respirable as Al
Amorphous silica (SiO ₂)	TWA	6 mg/m ³	Inhalable
		2.4 mg/m ³	Respirable
Diphosphorus pentoxide	TWA	1 mg/m ³	-
	STEL	2 mg/m ³	-
Titanium dioxide	TWA	10 mg/m ³	Inhalable
		4 mg/m ³	Respirable
<i>For the organic part</i>			
Carbon Monoxide	TWA	30 ppm	-
		35 mg/m ³	-
	STEL	200 ppm	-
		232 mg/m ³	-
Carbon Dioxide	TWA	5000 ppm	-
		9150 mg/m ³	-
	STEL	15000 ppm	-
		27400 mg/m ³	-

Substance	Type	Value	Form
Benzene	TWA	1ppm	-
		3.25 mg/m ³	-
1, 3-butadiene	TWA	10 ppm	-
		22 mg/m ³	-
Formaldehyde	TWA	2ppm	-
		2.5 mg/m ³	-
	STEL	2 ppm	-
Hydrogen cyanide	STEL	2.5 mg/m ³	-
		10ppm	-
		11 mg/m ³	-
Cyanides, except hydrogen cyanide	TWA	5 mg/m ³	As CN
Hydrogen Fluoride	TWA	1.8 ppm	As F
		1.5 mg/m ³	As F
	STEL	3 ppm	As F
		2.5 mg/m ³	As F

Ireland. OELs (2011 Code of Practice for the Safety, Health and Welfare at Work [Chemical Agents] Regulations 2001, (S.I. No. 619 of 2001))

Components	Type	Value	Form
Dust, non specific	TWA	10 mg/m ³	Inhalable
		4 mg/m ³	Respirable
Iron oxide	TWA	5 mg/m ³	Fume as Fe
	STEL	10 mg/m ³	Fume as Fe
Manganese	TWA	0.2 mg/m ³	Fume
	STEL	3 mg/m ³	Fume
Aluminium metal	TWA	1 mg/m ³	Respirable
Silicon	TWA	10 mg/m ³	Inhalable
		4 mg/m ³	Respirable

Decomposition	Type	Value	Form
Manganese and compounds	TWA	0.2 mg/m ³	As Mn
Aluminium oxides	TWA	10 mg/m ³	Inhalable
		4 mg/m ³	Respirable
Amorphous silica (SiO ₂)	TWA	6 mg/m ³	Inhalable
		2.4 mg/m ³	Respirable
Diphosphorus pentoxide	TWA	1 mg/m ³	-
Titanium dioxide	TWA	10 mg/m ³	Inhalable
		4 mg/m ³	Respirable

For the organic part

Carbon Monoxide	TWA	20 ppm	-
		23 mg/m ³	-
	STEL	100 ppm	-
		115 mg/m ³	-

Decomposition	Type	Value	Form
Carbon Dioxide	TWA	5000 ppm	-
		9000 mg/m ³	-
	STEL	15000 ppm	-
		27000 mg/m ³	-
Benzene	TWA	1ppm	-
		3 mg/m ³	-
1, 3-butadiene	TWA	1 ppm	-
		2.2 mg/m ³	-
Formaldehyde	TWA	2ppm	-
		2.5 mg/m ³	-
	STEL	2 ppm	-
		2.5 mg/m ³	-
Hydrogen cyanide	STEL	10ppm	-
		10 mg/m ³	-
Cyanides, except hydrogen cyanide	TWA	5 mg/m ³	As CN
Hydrogen Fluoride	TWA	1.8 ppm	As F
		1.5 mg/m ³	As F
	STEL	3 ppm	As F
		2.5 mg/m ³	As F
Fluorides	TWA	2.5 mg/m ³	As F

EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A

Decomposition	Type	Value
Benzen	TWA	3,25 mg/m ³
		1 ppm

Evaluation of Volatile Organic Compounds (VOC) emissions according ISO 16000-9 following French Directive n°2011-321 on labelling of construction products

This article is classified A+ (emission scenario for floor/roof).

8.2. Exposure controls

Appropriate engineering controls

During any processing of the article (welding, grinding, cutting, recycling by remelting, etc.) in which dust, fumes or gas can be generated, ensure that the limits listed above are not exceeded at the workplace. Extraction is therefore recommended at the workplace. Otherwise, personal protective equipments (PPE) should be necessarily worn¹.

Whole-body protection:

Wear worker clothes.

Protection of hands:

Gloves anti-cuts.

Protection of eyes and/or face:

Safety glasses when opening packaging.

Respiratory protection:

Not applicable to article as it is.

Emergency facilities:

Not applicable to article as it is.

Other information:

Safety shoes must be worn.

Hygiene measures:

Not applicable to article as it is.

¹ It will be noted that collective protection should be firstly used prior to PPEs.

SECTION 9: Physical and chemical properties

Physical state:	Solid. Surface appearance: Smooth, wrinkled
Colour:	Several.
pH:	Not applicable.
Characteristic temperatures:	Not applicable.
Flash point:	Not applicable.
Oxidizing properties:	Not applicable.
Specific density:	About 7800 Kg/m ³ .
Solubility:	Not applicable, article not soluble in water.
Radioactivity:	None in all cases.

SECTION 10: Stability and reactivity

10.1. Reactivity	Not applicable.
10.2. Chemical stability	Stable.
10.3. Possibility of hazardous reactions	No known hazardous reactions with usual substances.
10.4. Conditions to be avoided	None.
10.5. Incompatible materials	None.
10.6. Hazardous decomposition products	None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin contact	Not applicable. Safety gloves should be worn during handling.
Eye contact	Not applicable. Safety glasses should be worn.
Inhalation	Respect of the occupational exposure limit values noted in this SDS. See section 8.
Ingestion	Not applicable.

Substance and its inorganic compounds	Specific information on substances		Risks
	Melting point °C	Boiling Point °C	
Manganese	1244	1962	Risk of metal fume fever among persons exposed. Risk of manganism among persons exposed.
Aluminium	660	2518	Risk of aluminium exposure à during welding.
Silicon	1413	2899	-
Phosphorus	44	276	-
Niobium	2476	4743	-
Titanium	1667	3286	-
Zinc	419	907 at 1 bar	Risk of metal fume fever among persons exposed.
For the organic part	Not applicable	Not applicable	During welding, there is emission of fumes and gases containing, in particular, carbon dioxide and carbon monoxide as well as Organic Compounds, including CMR substances at trace level, like for all organic coated materials welded and some methacrylate or acrylate monomers in the case of Adhesive with an acrylic part.

SECTION 12: Ecological information

Ecotoxicity: Article insoluble in water. Material recycled from scrap.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Treatment procedure prior to disposal/destruction: Article recyclable and recycled from scraps in compliance with Directive 2000/53/EC on end of life vehicles and Directives 2002/95/EC and 2011/65/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Used packaging cleaning, treatment, destruction procedures: Destruction of packaging in accordance with applicable legislation.

SECTION 14: Transport information

Article not dangerous with regard to transport rules.

SECTION 15: Regulatory information

No specific information related to the article.

SECTION 16: Other information'

List of abbreviations

TWA: Time-Weighted Average
STEL: Short-Term Exposure Limit
CMR: Carcinogenic, Mutagenic and toxic for the Reproduction

Version	Changes
1	First edition
2	Update due to change in name (old name: Estetic Ceiling)
3	Update due to Nature Collection and changes in the manufacturing process.

Comments to the Users:

Due to the fact that the product concerned in this document has a status of article in the meaning of the Reach regulation, this document doesn't constitute a Safety Data Sheet in the meaning of the article 31 of the REACH regulation n° 1907-2006. In consequence, its supply is purely facultative. It enables to communicate the risks related to the processing of the article.

This sheet supplements but does not replace instruction manuals. The information contained herein is given to the best of our knowledge concerning the article indicated on the date on which it was updated. Information is provided in good faith.

Attention of users is also drawn to possible risks which may arise if the article is applied for purposes other than those for which it has been designed.

This sheet does not in any way exempt the user from knowing and complying with all the regulatory texts applying to his or her activity. The user takes full responsibility for knowing and taking the precautions related to the use of the article. References to regulatory provisions are given to assist the user in fulfilling the obligations incumbent on persons using a dangerous preparation.

All local and international measures and provisions which could apply should be referred to.

Attention of users is drawn to the possible existence of other provisions supplementing these rules.

This list is not to be taken as comprehensive. It does not exempt the user from ensuring that obligations under texts other than those to which reference is made do not apply to the detention and use of the article, for which the user alone is responsible.