

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

**STEELPAINT**

Article no.: B100.0001  
Date of print: 3. July 2012

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Revision date: 3. July 2012

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## 1. Identification of the substance/ preparation and of the company/ undertaking

**Article no. (manufacturer / supplier):** B100.0001  
**Identification of the substance or preparation:** Stelpant-PU-Zinc grey  
**Use of the substance/ preparation:**  
Primer for steel construction  
**Supplier (manufacturer/importer/downstream user/distributor):**  
Steelpaint GmbH  
Am Dreistock 9 Telephone: +49 9321 37040  
D- 97318 Kitzingen Telefax: +49 9321 370440  
**Dept. responsible for information:**  
Labor E-mail: mail@steelpaint.com  
Emergency telephone:  
Giftnotruf Mainz - 24 Stunden Notddienst - Tel. +49 (0) 6131/19240  
Poison Control Center Mainz - 24 hour emergency service - phone +49 (0) 6131/19240

## 2. Hazards identification

### Hazard designation:



Xn Harmful



N Dangerous for the environment

### Critical hazard to man and environment:

10 Flammable.  
36/37/38 Irritating to eyes, respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.  
42/43 May cause sensitization by inhalation and skin contact.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. Composition/ Information on ingredients

### chemical characterization (preparation)

**description:** Farbe auf Basis aromat. Polyisocyanat  
Polyisocyanat

### Dangerous ingredients:

EC-no.:	Identification of the hazard:	Labelling (67/548/EEC or 1999/45/EC)	% by weight
CAS-No.:	R phrases:	Remark:	
INDEX no.:	REACH-no.:		
231-175-3	zinc powder - zinc dust (pyrophoric)	F,N	50 - 100
7440-66-6	15-17-50/53		
030-001-00-1			
-	zinc powder - zinc dust (stabilised)	N	12,5 - 20
030-001-01-9	50/53		
918-668-5	Solventnaphta leicht	Xn,N	2,5 - 5
649-356-00-4	65-37-51/53-10-66-67		
000-000-00	Aromatisches Polyisocyanat-Prepolymer	Xn	2,5 - 5
67815-87-6	42/43		
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	Xn	2,5 - 5
615-005-01-6	20-36/37/38-40-42/43-48/20		
215-222-5	zinc oxide	N	2,5 - 5
1314-13-2	50/53		
030-013-00-7			
215-535-7	xylene, mixture of isomers	Xn	2,5 - 5
1330-20-7	10-20/21-38		
601-022-00-9			

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202-966-0 101-68-8 615-005-00-9	4,4'-methylenediphenyl diisocyanate 20-36/37/38-40-42/43-48/20	Xn	< 0,5
227-534-9 5873-54-1 615-005-00-9	o-(p-isocyanatobenzyl)phenyl isocyanate 20-36/37/38-40-42/43-48/20	Xn	< 0,5

## Additional information

Full text of R-phrases: see section 16.

## 4. First-aid measures

### General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

### Following inhalation:

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

### After skin contact:

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

### Following eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

### after ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Consult physician immediately. Keep victim calm. Do not induce vomiting.

## 5. Fire-fighting measures

### Suitable extinguishing media:

alcohol resistant foam, Carbon dioxide, Powder, spray mist, (water)

### Extinguishing media which must not be used for safety reasons:

High power water jet

### Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### Special protective equipment for fire-fighters:

Provide a conveniently located respiratory protective device.

### Additional information:

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

## 6. Accidental release measures

### Personal precautions

Keep away from sources of ignition. Ventilate affected area. Do not inhale vapours. See protective measures under point 7 and 8.

### Environmental precautions

Do not empty into drains or the aquatic environment. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

### methods for cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Use appropriate container to avoid environmental contamination. Fouled surfaces must be immediately cleaned with suitable solvents, Useable as such (flammable): water 45 vol.% ethanol or i-propanol 50 vol. % ammonia solution (density= 0.88) 5 vol.%

Alternative (non-flammable): sodium carbonate 5 vol.% water 95 vol.%.

Take up spilled residuals with the same agent and leave them for a few days in unclosed containers until there is no further reaction. Then, close the containers and dispose of them in accordance with the regulations for waste removal (refer to

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Chapter 13

## 7. Handling and storage

People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

People who spray this preparation should have regular pulmonary function tests.

### Handling

#### Information for safe handling:

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use material in places where open light, fire and other sources of ignition can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Ensure the grounding of containers, apparatus, pumps and suction equipment. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Be careful when opening used containers (excess pressure). Precautionary measures should be taken in order to reduce strain from humidity or water: CO<sub>2</sub> is formed which may produce excess pressure in closed containers. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eye and clothing. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid breathing swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Precautions against fire and explosion:

Vapours are heavier than air and will spread at floor level. Vapours form explosive mixtures with air.

### Storage

#### Requirements for storerooms and containers:

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### Information about storage in one common storage facility:

Keep away from strongly acidic and alkaline materials as well as oxidizers. Keep away from amines, alcohols and water.

#### Further information concerning storage conditions:

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

## 8. Exposure controls/ Personal protection

People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

People who spray this preparation should have regular pulmonary function tests.

### Technical measures to prevent exposure

Provide good ventilation. This can be achieved with local or room suction. When spraying, wear self-contained breathing apparatus. For other tasks a suitable respiratory system must be used, if local and room suction is not sufficient for keeping aerosol and solvent vapour concentration below the exposure limit values. (refer to Personal protection equipment.)

### Components with workplace or biological limit values to be monitored:

EC-no.:	description:	type:	Value		unit
			STEL (EC)	TWA (EC)	
215-535-7	xylene, mixture of isomers		662	441	mg/m <sup>3</sup>
1330-20-7			150	100	ppm
202-966-0	4,4'-methylenediphenyl diisocyanate			0,05	mg/m <sup>3</sup>
101-68-8					

### Additional information

Stated values are taken from the then applicable German TRGS 900 or the German VCI table for exposure limit values.

TWA (EC): Occupational exposure limit value

STEL (EC): Short term occupational exposure limit value

### Occupational exposure controls:

#### Respiratory protection:

When spraying, wear self-contained breathing apparatus. In well-ventilated rooms self-contained breathing apparatus may be replaced with combination filters such as particulates/gas filters. Only use breathing apparatus with CE-label including the

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four-digit identification number.

**Hand protection:**

For prolonged or repeated handling the following glove material must be used: butyl rubber - IIR ( $\geq 0,5\text{mm}$ ) Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: Recommended protective gloves brand: DIN EN 374 Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye protection:**

Wear closely fitting protective glasses in case of splashes.

**Skin protection:**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Preventive measures:**

After contact clean skin thoroughly with water and soap oder use appropriate cleanser.

**9. Physical and chemical properties**

**Appearance:**

**State of matter:** liquid  
**Paint:** as labeled  
**Odour:** characteristic

Safety relevant basis data	unit	Method	Remark:
Flash point (°C):	25 °C	DIN 53213	
Ignition temperature (AIT):	410 °C		
lower explosion limit:	0,8 Vol-%		
Upper explosion level:	11,5 Vol-%		
Vapour pressure:(at temperature in °C): 20	0,55 mbar		
density:(at temperature in °C): 20	3,08 g/cm <sup>3</sup>		
Solubility in water (g/l):	insoluble		
pH (at temperature in °C):	-		
Viscosity (at temperature in °C): 20	115 s 4 mm	DIN 53211	
Solvent separation test (%):	< 3 %		
Solid content (%):	92 % by weight		
solvent content:			
organic solvents	8 % by weight		

**10. Stability and reactivity**

**Conditions to avoid**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

**Materials to avoid**

Keep away from strongly acidic and alkaline materials as well as oxidizers. Keep away from amines, alcohols and water. Amines and alcohols cause uncontrollable exothermic reactions. Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

**Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides. none if used properly none if used properly none if used properly

**11. Toxicological information**

No data on preparation itself available.

**Other observations:**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage. Because of the isocyanate components' properties of this and with consideration of similar preparations the following applies: Preparation may cause acute irritation and/or sensitization of airways which lead to tightness in thorax, short-breath and asthmatic complaints. After sensitization even concentrations below the exposure limit values may cause asthma. Repeated inhaling can lead to permanent illness of the respiratory tract. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or

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absorption through skin.

## Practical experience

### Summarized evaluation of the CMR properties:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

## 12. Ecological information

### Type judging:

There is no information available on the preparation itself.

Do not empty into drains or the aquatic environment.

### Results of PBT assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

## 13. Disposal considerations

### Appropriate disposal/Product:

#### Recommendation:

Do not empty into drains or the aquatic environment. Handle contaminated packaging in the same way as the substance itself. This material and its container must be disposed of in a safe way. Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

### Control report for waste code/ waste marking according to EAKV:

080111 waste paint and varnish containing organic solvents or other dangerous substances

### Contaminated packaging:

#### Recommendation:

Cleaned containers may be recycled. Vessels not properly emptied are special waste.

## 14. Transport information

Transport according to ADR/RID, IMDG and ICAO/IATA.

### Overland transport (ADR/RID)

Class: 3  
Label: 3  
UN No.: 1263  
Hazard identification number (Kemler No.): 30  
Official directive for the transport: Paint  
Packing Group: III  
Tunnel restriction code: D/E

### Transport by sea (IMDG)

Class: 3  
Label: 3  
EmS-No.: F-E, S-E  
UN No.: 1263  
Official directive for the transport: PAINT  
Packing Group: III  
Marine pollutant: p zincludust

### Air transport (ICAO-TI / IATA-DGR)

Class: 3  
Label: 3  
UN No.: 1263  
Official directive for the transport: Paint  
Packing Group: III

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## 15. Regulatory information

### EU-Regulations

#### Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

#### Labelling (67/548/EEC or 1999/45/EC)

#### Danger symbol(s) and danger term(s) for dangerous materials and preparations:



Xn Harmful



N Dangerous for the environment

#### Contains:

4,4'-methylenediphenyl diisocyanate  
diphenylmethanediisocyanate, isomeres and homologues  
o-(p-isocyanatobenzyl)phenyl isocyanate  
Aromatisches Polyisocyanat-Prepolymer

#### R phrases:

10 Flammable.  
36/37/38 Irritating to eyes, respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.  
42/43 May cause sensitization by inhalation and skin contact.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### S phrases:

24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37 Wear suitable protective clothing and gloves.  
38 In case of insufficient ventilation, wear suitable respiratory equipment.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show this label if possible).  
51 Use only in well-ventilated areas.  
61 Avoid release to the environment. Refer to special instructions/Safety data sheets.  
23 Do not breathe vapour.

#### Special labelling of particular preparations:

91 Contains isocyanates. May produce an allergic reaction.

#### Other regulations (EU):

#### Data concerning the Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL)

VOC-value (in g/l) ISO 11890-2: 259  
VOC-value (in g/l) ASTM D 2369: 259

#### National regulations

#### Informations on working limitations:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe employment restrictions under the law for the protection of young people at work (94/33/EC).

#### Further regulations, limitations and legal requirements:

## 16. Other information

#### Wording of the r-phrases under paragraph 3:

10 Flammable.  
20/21 Harmful by inhalation and in contact with skin.  
38 Irritating to skin.  
20 Harmful by inhalation.  
36/37/38 Irritating to eyes, respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.  
42/43 May cause sensitization by inhalation and skin contact.  
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
15 Contact with water liberates highly flammable gas.

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17	Spontaneously flammable in air.
65	Harmful: may cause lung damage if swallowed.
37	Irritating to respiratory system.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

**Further remarks:**

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

n.a.: not applicable

n.b.: not determined

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**Annex**

At present, data / information on exposure scenarios are not available, so that an evaluation of the preparation cannot yet be made.