Safety Data Sheet HighPerformance Grund

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

Designation: HighPerformance Grund

1.2. Use of the substance / the preparation

Description / Use: Water-based paint based on acrylic polymers in water dispersion.

1.3. Identification of the Company

Company name: edelundstein GmbH
Address: Einsteinstraße 12, D-33104 Paderborn
VAT./TAX CODE: DE286532567

1.4. Emergency telephone number

+49 (0) 5254/9330731

2. IDENTIFICATION OF HAZARDS

2.1. Classification of the substance or mixture

The product is not classified as dangerous in accordance with the provisions of Regulation (EC) 1272/2008 (CLP) (as amended).

Classification and hazard statements: -

2.2. Label elements

Danger pictograms: -
Warnings: -
Indications of danger: -
Cautionary advice: -

2.3. Other hazards

According to the available data, the product does not contain any PBT or vPvB substances above 0.1%.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Contains:

Identification	Concentration % (C)	Classification 1272/2008 (CLP)
TITANIUM DIOXIDE (59.9% - metallic element) CAS. 13463-67-7 EC. 236-675-5 INDEX. - –	9 – 30	

Note: Upper value of the range excluded. The full text of the hazard statements (H) is given in section 16 of the sheet.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Not specifically required. Good industrial hygiene is recommended in all cases.

4.2. Main symptoms and effects, both acute and delayed

There are no known incidents of health damage attributable to the product.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: The extinguishing media are the traditional ones: carbon dioxide, foam, powder and water mist.

UNAUTHORISED EXTINGUISHING MEDIA: None in particular.

5.2. Special hazards arising from the substance or mixture

DANGERS CAUSED BY EXPOSURE IN CASE OF FIRE: Avoid breathing the products of combustion.

5.3. Recommendations for firefighters

GENERAL INFORMATION

Cool containers with water jets to prevent decomposition of the product and the development of substances potentially hazardous to health. Always wear full fire protection equipment. Collect fire extinguishing water which must not be discharged into drains. Dispose of contaminated fire extinguishing water and fire residue in accordance with local regulations.

EQUIPMENT

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame resistant suit (EN469), flame resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1. Personal precautions, protective equipment and emergency procedures

In the event of airborne vapours or dusts, use respiratory protection. These instructions apply to both workers and emergency personnel.

6.2. Environmental precautions

Do not allow product to enter drains, surface or ground water.

6.3. Methods and materials for containment and remediation

Embank with earth or inert material. Collect most of the material and eliminate the residue with water jets. Dispose of contaminated material in accordance with point 13.

6.4. Reference to other sections

Information on personal protection and disposal is given in sections 8 and 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handle the product after consulting all the other sections of this safety data sheet. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep product in clearly labelled containers. Store containers away from any incompatible materials, check section 10.

7.3. Particular end uses

Information not available.

8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION

8.1. Control parameters
Information not available.

8.2. Exposure controls
Observe the usual safety measures when handling chemicals.

HAND PROTECTION: Not required.

SKIN PROTECTION: Not necessary.

EYE PROTECTION: Not necessary.

RESPIRATORY PROTECTION: If the threshold value (e.g. TLV-TWA) of the substance or of one or more of the substances present in the product is exceeded, it is advisable to wear a mask with type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If gases or vapours of a different nature and/or gases or vapours with particles (aerosols, fumes, mists, etc.) are present, combined filters should be used. The use of respiratory protection equipment is necessary if the technical measures taken are not sufficient to limit the worker's exposure to the relevant threshold values. The protection offered by masks is in any case limited. If the substance in question is odourless or its odour threshold is higher than the relevant TLV-TWA and in an emergency, wear an open-circuit self-contained compressed air breathing apparatus (ref. standard EN 137) or a supplied-air respirator (ref. standard EN 138). For the correct choice of respiratory protective device, refer to EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS: Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

PHYSICAL STATUS	Pasta
COLOUR	White
SMELL	Typical
OLFACTORY THRESHOLD	Not available
pH	Not available
MELTING OR FREEZING POINT	Not available
INITIAL BOILING POINT	Not available
BOILING RANGE	Not available
FLASH POINT	> 61°C
EVAPORATION RATE	Not available
FLAMMABILITY OF SOLIDS AND GASES	Not available
LOWER FLAMMABILITY LIMIT	Not available
UPPER FLAMMABILITY LIMIT	Not available
LOWER EXPLOSIVE LIMIT	Not available

UPPER EXPLOSIVE LIMIT	Not available
VAPOUR PRESSURE	Not available
VAPOUR DENSITY	Not available
RELATIVE DENSITY	1,500 kg/l
SOLUBILITY	Miscible
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not available
SELF-IGNITION TEMPERATURE	Not available
DECOMPOSITION TEMPERATURE	Not available
VISCOSITY	Thixotropic
EXPLOSIVE PROPERTIES	Not available
OXIDISING PROPERTIES	Not available

9.2. Other information

VOC (Directive 2004/42/EC):	2.30 % - 34.53 g/litre
VOC (volatile carbon):	Not available.
pH	8,5 - 9

10. STABILITY AND RESPONSIVENESS

10.1. Reactivity
There is no particular danger of reaction with other substances under normal conditions of use.

10.2. Chemical stability
The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions
No hazardous reactions are to be expected under normal use and storage conditions.

10.4. Conditions to be avoided
None in particular. However, the usual precautions against chemicals must be observed.

10.5. Incompatible materials
Information not available.

10.6. Hazardous decomposition products
Information not available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
In the absence of experimental toxicological data on the product itself, the possible health hazards of the product have been assessed on the basis of the properties of the substances contained, according to the criteria laid down in the relevant classification regulations. Therefore, the concentration of any hazardous substances mentioned in section 3 must be taken into account when assessing the toxicological

effects of exposure to the product. The product contains sensitising substance(s) and may therefore cause an allergic reaction.

TITANIUM DIOXIDE
LD50 (Oral) > 10000 mg/kg Rat

12. ECOLOGICAL INFORMATION

Use according to good working practices, avoiding dispersion of the product in the environment. Inform the competent authorities if the product has reached waterways or sewers or if it has contaminated soil or vegetation.

12.1. Toxicity

Information not available.

12.2. Persistence and degradability

TITANIUM DIOXIDE
Solubility in water < mg/l 0,001
Biodegradability: Not available

12.3. Bioaccumulative potential
Information not available.

12.4. Mobility in soil
Information not available.

12.5. Results of PBT and vPvB assessment
According to the available data, the product does not contain any PBT or vPvB substances above 0.1%.

12.6. Other adverse effects
Information not available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Reuse if possible. Product residues as such are to be considered as special non-hazardous waste. Disposal must be entrusted to an authorised waste management company, in accordance with national and, where appropriate, local regulations.

CONTAMINATED PACKAGING
Contaminated packaging must be sent for recovery or disposal in accordance with national waste management regulations.

14. TRANSPORT INFORMATION

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
Not applicable.

14.4. Packaging group
Not applicable.

14.5. Environmental hazards
Not applicable.

14.6. Special precautions for users
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. INFORMATION ON REGULATIONS

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso category.	None.
Restrictions related to the product or the contained substances according to Annex XVII Regulation (EC) 1907/2006.	None.
Substances on Candidate List (Art. 59 REACH).	None.
Substances subject to authorisation (Annex XIV REACH).	None.
Substances subject to export notification Reg. (EC) 649/2012	None.
Substances subject to the Rotterdam Convention	None.
Substances subject to the Stockholm Convention	None.
Health checks. Information	not available.

VOC (Directive 2004/42/EC)
Paints for walls with a mineral substrate.

VOC expressed in g/litre of ready-to-use product:

Maximum limit	40,00 (2010)	
VOC of the product:	30,02	
- Diluted with	10,00%	WATER

Emissions according to Part V Annex I: TAB. D Class 3 00,80%
WATER 20.90

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture and the substances it contains.

16. OTHER INFORMATION

LEGEND:
- ADR: European Agreement on the Transport of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service number
- EC50: Concentration affecting 50% of the test population
- CE NUMBER: Identification number in ESIS (European Database of Existing Substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived no-effect level
- EmS: Emergency Schedule
- GHS: Globally harmonised system for the classification and labelling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulations
- IC50: Immobilisation concentration of 50% of the test population
- IMDG: International maritime code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI CLP
- LC50: Lethal concentration 50
- LD50: Lethal dose 50%.
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Expected level of exposure
- PNEC: Predictable no-effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulations for the international carriage of dangerous goods by rail

- TLV: Threshold limit value
- TLV CEILING: Concentration not to be exceeded during any time of occupational exposure
- TWA STEL: Short-term exposure limit
- TWA: Weighted Average Exposure Limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Aquatic hazard class (Germany)

Main bibliographical sources

1. Regulation (EU) 1907/2006 of the European Parliament (REACH)
2. Regulation (EU) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA Agency Website

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