

Safety Data Sheet

MasterProtect HB 200 col ser med also THOROCCOAT 200 COLOR SERIES M

Revision date : 2012/09/11
Version: 2.0

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(51713625/SDS_GEN_US/EN)

1. Product and Company Identification

Company
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

2. Hazards Identification

Emergency overview

WARNING:
MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
Contains a suspect teratogen.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.
Keep container tightly closed.

State of matter: liquid
Colour: various colours
Odour: sweetish, slight odour

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Irritation / corrosion:

Irritating to eyes, respiratory system and skin.

Sensitization:

There is no evidence of a skin-sensitizing potential.

Chronic toxicity:

Carcinogenicity: Contains a known carcinogen. This product contains crystalline silica (quartz).

Teratogenicity: Contains a suspect teratogen.

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Potential environmental effects

Aquatic toxicity:

The product has not been tested.

3. Composition / Information on Ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u> |
|-------------------|----------------------|----------------------|
| 1317-65-3 | >= 15.0 - <= 40.0 % | Limestone |
| 13463-67-7 | >= 7.0 - <= 13.0 % | Titanium dioxide |
| 12001-26-2 | >= 3.0 - <= 7.0 % | Mica-group minerals |
| 107-21-1 | >= 1.0 - <= 5.0 % | ethylene glycol |
| 14808-60-7 | >= 0.1 - <= 1.0 % | crystalline silica |

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth immediately with water. Seek medical attention if necessary. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

| | |
|------------------------|------------|
| Flash point: | > 93.34 °C |
| Lower explosion limit: | 3.2 %(V) |
| Upper explosion limit: | 15.3 %(V) |

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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6. Accidental release measures

Personal precautions:

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

7. Handling and Storage

Handling

General advice:

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Protection against fire and explosion:

The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

Storage

General advice:

Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

Temperature tolerance

Protect from temperatures below: 32 °F

8. Exposure Controls and Personal Protection

Components with workplace control parameters

| | | |
|---------------------|-------|--|
| crystalline silica | OSHA | TWA value 2.4 millions of particles per cubic foot of air Respirable ; The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. TWA value 0.1 mg/m3 Respirable ; The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. TWA value 0.3 mg/m3 Total dust ; The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. |
| ethylene glycol | ACGIH | TWA value 0.025 mg/m3 Respirable fraction ; |
| Titanium dioxide | ACGIH | CLV 100 mg/m3 aerosol ; |
| | OSHA | PEL 15 mg/m3 Total dust ; |
| | ACGIH | TWA value 10 mg/m3 ; |
| Mica-group minerals | OSHA | TWA value 20 millions of particles per cubic foot of air ; |

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| | | |
|-----------|---------------|---|
| Limestone | ACGIH OSHA | TWA value 3 mg/m3 Respirable fraction ; PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ; |
|-----------|---------------|---|

Personal protective equipment

Respiratory protection:

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

Hand protection:

Wear chemical resistant protective gloves.

Eye protection:

Safety glasses with side-shields.

Body protection:

depending upon conditions of use., Cover as much of the exposed skin as possible to prevent all skin contact., light protective clothing

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

| | | |
|---|---|---|
| Form: | liquid | |
| Odour: | sweetish, slight odour | |
| Colour: | various colours | |
| pH value: | | No data available. |
| Boiling point: | 192.78 - 205.00 °C | |
| Density: | 1.35 - 1.47 g/cm3 | (20 °C) |
| Vapour density: | | Heavier than air. |
| Partitioning coefficient n-octanol/water (log Pow): | | The value has not been determined because the substance is inorganic. |
| Solubility in water: | | partly soluble |
| Other Information: | If necessary, information on other physical and chemical parameters is indicated in this section. | |

10. Stability and Reactivity

Conditions to avoid:

Avoid extreme temperatures.

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

Decomposition products:

irritant gases/vapours, carbon oxides

Thermal decomposition:

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No decomposition if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

11. Toxicological information

Acute toxicity

Information on: ethylene glycol

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Of low toxicity after short-term skin contact.

Repeated dose toxicity

Information on: ethylene glycol

Assessment of repeated dose toxicity:

The substance may cause damage to the kidney after repeated ingestion. The substance may cause damage to the kidney after repeated skin contact with high doses.

Carcinogenicity

Information on: crystalline silica

In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given by inhalation in high doses, a carcinogenic effect was observed. The substance and its compounds in the form of respirable dusts/aerosols classified by the German MAK commission as a category 1 carcinogen (substances that cause cancer to humans). A carcinogenic effect cannot safely be ruled out. The inhalation uptake of the alveolar fraction of the fine dust may cause damage to the lungs. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.

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NTP listed carcinogen

Information on: Titanium dioxide

IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.

Development:

Information on: ethylene glycol

In animal studies the substance caused malformations when given at high doses.

Experiences in humans:

According to experience, the product is considered to be harmless to health if used in the correct manner.

Other Information:

The product has not been tested. The statement has been derived from the properties of the individual components.

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12. Ecological Information

Other adverse effects:

The product has not been tested. Do not allow to enter soil, waterways or waste water channels.

13. Disposal considerations

Waste disposal of substance:

Recommendations: Use excess product in an alternate beneficial application. Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport USDOT

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

OSHA hazard category:

IARC 1, 2A or 2B carcinogen; NTP listed carcinogen; Chronic target organ effects reported; OSHA PEL established; ACGIH TLV established

EPCRA 311/312 (Hazard categories):

Acute; Chronic

EPCRA 313:

CAS Number
107-21-1

Chemical name
ethylene glycol

CERCLA RQ

CAS Number

Chemical name

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| | | |
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| 5000 LBS | 107-21-1 | ethylene glycol |
| 1000 LBS | 1336-21-6 | Ammonium hydroxide |
| 100 LBS | 7664-41-7 | ammonia |

State regulations

| <u>State RTK</u> | <u>CAS Number</u> | <u>Chemical name</u> |
|------------------|-------------------|----------------------|
| MA, NJ, PA | 13463-67-7 | Titanium dioxide |
| MA, NJ, PA | 12001-26-2 | Mica-group minerals |
| MA, NJ, PA | 107-21-1 | ethylene glycol |
| MA, NJ, PA | 14808-60-7 | crystalline silica |

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

16. Other Information

HMIS III rating

Health: 1# Flammability: 1 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:

BASF NA Product Regulations

MSDS Prepared on: 2012/09/11

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