

# Safety Data Sheet

## MasterEmaco T 545

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### 1. Identification

#### Product identifier used on the label

## MasterEmaco T 545

#### Recommended use of the chemical and restriction on use

Recommended use\*: Product for construction chemicals  
Recommended use\*: for industrial and professional users

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

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

Telephone: +1 973 245-6000

#### Emergency telephone number

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Chemical family: No data available.

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

Repr.	1B (fertility)	Reproductive toxicity
Repr.	1B (unborn child)	Reproductive toxicity
Combustible Dust	Combustible Dust (1)	Combustible Dust
Carc.	1A	Carcinogenicity
STOT RE	2 (by inhalation)	Specific target organ toxicity — repeated exposure
STOT RE	1 (by inhalation)	Specific target organ toxicity — repeated

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exposure

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H350 May form combustible dust concentration in air.  
H373 May cause cancer.  
H372 May cause damage to organs (Kidney, Immune system) through prolonged or repeated exposure (inhalation).  
H372 Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).  
H360 May damage fertility. May damage the unborn child.

Precautionary Statements (Prevention):

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P201 Obtain special instructions before use.  
P260 Do not breathe dust/gas/mist/vapours.  
P202 Do not handle until all safety precautions have been read and understood.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P314 Get medical advice/attention if you feel unwell.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

### Hazards not otherwise classified

No applicable information available.

## 3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
14808-60-7	>= 50.0 - < 100.0%	crystalline silica
1305-78-8	>= 0.0 - < 3.0%	calcium oxide
10043-35-3	>= 0.0 - < 3.0%	boric acid
7722-88-5	>= 0.0 - < 0.2%	Tetrasodium pyrophosphate
1309-48-4	>= 5.0 - < 15.0%	magnesium oxide

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1309-37-1                      >= 0.0 - < 3.0%                      Iron oxide

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### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

##### If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

##### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

##### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Hazards: No applicable information available.

#### Indication of any immediate medical attention and special treatment needed

##### Note to physician

Treatment:                      Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

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

#### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

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### Further information:

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

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## 6. Accidental release measures

### Further accidental release measures:

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

### **Personal precautions, protective equipment and emergency procedures**

Do not breathe dust. Wear eye/face protection. Use personal protective clothing. 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.

### **Methods and material for containment and cleaning up**

Nonsparking tools should be used.

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## 7. Handling and Storage

### **Precautions for safe handling**

Avoid raising dust. Wear suitable protective clothing and eye/face protection. Avoid inhalation of dusts/mists/vapours. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

### Protection against fire and explosion:

Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

### **Conditions for safe storage, including any incompatibilities**

Observe VCI storage rules.

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

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## 8. Exposure Controls/Personal Protection

### **Components with occupational exposure limits**

calcium oxide	OSHA PEL	PEL 5 mg/m <sup>3</sup> ; TWA value 5 mg/m <sup>3</sup> ;
	ACGIH TLV	TWA value 2 mg/m <sup>3</sup> ;

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Iron oxide	OSHA PEL	PEL 10 mg/m3 fumes/smoke ; TWA value 10 mg/m3 fumes/smoke ;
	ACGIH TLV	TWA value 5 mg/m3 Respirable fraction ;
magnesium oxide	OSHA PEL	PEL 15 mg/m3 Total particulate ; TWA value 10 mg/m3 Total particulate ;
	ACGIH TLV	TWA value 10 mg/m3 Inhalable fraction ;
crystalline silica	OSHA PEL	TWA value 0.05 mg/m3 (Respirable dust); OSHA Action level 0.025 mg/m3 (Respirable dust);
	ACGIH TLV	TWA value 0.025 mg/m3 Respirable fraction ;
Quartz (SiO <sub>2</sub> )	OSHA PEL	TWA value 0.05 mg/m3 (Respirable dust); OSHA Action level 0.025 mg/m3 (Respirable dust);
	ACGIH TLV	TWA value 0.025 mg/m3 Respirable fraction ;

### Advice on system design:

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

#### Hand protection:

Chemical resistant protective gloves, Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

Safety glasses with side-shields.

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### General safety and hygiene measures:

Avoid inhalation of dusts. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid exposure - obtain special instructions before use. 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).

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## 9. Physical and Chemical Properties

Form:	powder
Odour:	odourless
Odour threshold:	No applicable information available.
Colour:	grey

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pH value:	slightly alkaline
Melting temperature:	> 1,000 °C
Boiling point:	No applicable information available.
Sublimation point:	No applicable information available.
Flash point:	The substance/product is non-combustible.
Flammability:	not determined
Lower explosion limit:	No applicable information available.
Upper explosion limit:	No applicable information available.
Autoignition:	No applicable information available.
Vapour pressure:	No applicable information available.
Relative density:	No applicable information available.
Bulk density:	1,000 kg/m <sup>3</sup>
Vapour density:	No applicable information available.
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.
Thermal decomposition:	No applicable information available.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	No applicable information available.
Solubility in water:	slightly soluble
Miscibility with water:	( 20 °C) not soluble
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Evaporation rate:	No applicable information available.

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## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

not fire-propagating

### Chemical stability

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

### Possibility of hazardous reactions

No applicable information available.

### Conditions to avoid

See MSDS section 7 - Handling and storage.

### Incompatible materials

strong acids, strong bases, strong oxidizing agents, strong reducing agents

### Hazardous decomposition products

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No applicable information available.

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### 11. Toxicological information

#### Primary routes of exposure

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

#### Acute Toxicity/Effects

##### Acute toxicity

Assessment of acute toxicity: Based on available Data, the classification criteria are not met.

##### Oral

No applicable information available.

##### Inhalation

No applicable information available.

##### Dermal

No applicable information available.

##### Assessment other acute effects

No applicable information available.

##### Irritation / corrosion

Assessment of irritating effects: No applicable information available.

##### Sensitization

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect.

#### Chronic Toxicity/Effects

##### Repeated dose toxicity

Assessment of repeated dose toxicity: This product contains crystalline silica (quartz). Prolonged or repeated inhalation of respirable crystalline silica may result in silicosis.

Repeated exposure may affect certain organs.

##### Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

##### Carcinogenicity

Assessment of carcinogenicity: May cause cancer.

##### *Information on: crystalline silica*

*Assessment of carcinogenicity: 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.*

##### *NTP listed carcinogen*

*OSHA (Occupational Safety and Health Administration) has classified this substance as carcinogenic.*

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Reproductive toxicity

Assessment of reproduction toxicity: May impair fertility. May cause harm to the unborn child. The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity

Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect.

Other Information

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

### Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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## 12. Ecological Information

### Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. Based on available Data, the classification criteria are not met.

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## 13. Disposal considerations

### Waste disposal of substance:

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.

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## 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



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Not classified as a dangerous good under transport regulations

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

##### EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
7722-76-1	Ammonium phosphate

#### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	1305-78-8	calcium oxide
	1309-48-4	magnesium oxide
	14808-60-7	Quartz (SiO <sub>2</sub> )
PA	1305-78-8	calcium oxide
	1309-37-1	Iron oxide
	1309-48-4	magnesium oxide
	7758-29-4	Triphosphoric acid, pentasodium salt
	14808-60-7	crystalline silica
	14808-60-7	Quartz (SiO <sub>2</sub> )

#### **Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE), which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### **NFPA Hazard codes:**

Health: 1      Fire: 1      Reactivity: 0      Special:

### 16. Other Information

#### **SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2019/05/26

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.

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