

Safety Data Sheet

MasterEmaco T 545HT also SET 45 HW

Revision date : 2012/11/06

Version: 1.2

Page: 1/7

(30605450/SDS_GEN_CA/EN)

1. Product and Company Identification

Company

BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

2. Hazards Identification

Emergency overview

IRRITANT.
Irritating to eyes and skin.
CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
Contains a suspected reproductive toxin.
Contains a suspect teratogen.

State of matter: solid
Colour: grey
Odour: odourless

Potential health effects**Acute toxicity:**

Ingestion may cause gastrointestinal disturbances. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion:

The product has not been tested. The statement has been derived from the properties of the individual components. Contact with the eyes or skin may cause mechanical irritation. The cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction.

Chronic toxicity:

Repeated dose toxicity: Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).

Reproductive toxicity: 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.

Safety Data Sheet

MasterEmaco T 545HT also SET 45 HW

Revision date : 2012/11/06
Version: 1.2

Page: 2/7
(30605450/SDS_GEN_CA/EN)

Teratogenicity: 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.

Genotoxicity: 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.

Signs and symptoms of overexposure:

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

Potential environmental effects

Aquatic toxicity:

The product has not been tested.

Bioaccumulation / bioconcentration:

Discharge into the environment must be avoided.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Hazardous ingredients</u>
14808-60-7	>= 60.0 - <= 100.0 %	crystalline silica
1309-48-4	>= 7.0 - <= 13.0 %	magnesium oxide
68131-74-8	>= 7.0 - <= 13.0 %	Ashes (residues)
7758-29-4	>= 1.0 - <= 5.0 %	Triphosphoric acid, pentasodium salt
10043-35-3	>= 0.5 - <= 1.5 %	boric acid

4. First-Aid Measures

General advice:

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

If inhaled:

After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain 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 and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Note to physician

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

5. Fire-Fighting Measures

Flash point:

Self-ignition temperature:

The substance/product is non-combustible.

not self-igniting

Safety Data Sheet

MasterEmaco T 545HT also SET 45 HW

Revision date : 2012/11/06
Version: 1.2

Page: 3/7
(30605450/SDS_GEN_CA/EN)

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Hazards during fire-fighting:

carbon dioxide, carbon monoxide, 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.

6. Accidental release measures

Personal precautions:

Avoid dust formation. Avoid contact with skin and eyes. 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.

Cleanup:

Avoid raising dust.

For small amounts: Pick up with suitable appliance and dispose of. Dispose of absorbed material in accordance with regulations.

For large amounts: Pick up with suitable appliance and dispose of. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Handling

General advice:

Avoid dust formation. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Keep away from sources of ignition - No smoking. Dust can form an explosive mixture with air.

Storage

General advice:

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

Storage incompatibility:

General advice: Segregate from metals. Segregate from acids. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

8. Exposure Controls and Personal Protection

Components with occupational exposure limits

Safety Data Sheet

MasterEmaco T 545HT also SET 45 HW

Revision date : 2012/11/06
Version: 1.2

Page: 4/7
(30605450/SDS_GEN_CA/EN)

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.
boric acid	ACGIH	TWA value 0.025 mg/m3 Respirable fraction ;
	ACGIH	TWA value 2 mg/m3 ; STEL value 6 mg/m3 ; TWA value 2 mg/m3 Inhalable fraction ; STEL value 6 mg/m3 Inhalable fraction ;
magnesium oxide	OSHA	PEL 15 mg/m3 Total particulate ;
	ACGIH	TWA value 10 mg/m3 Inhalable fraction ;

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:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. 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:	powder	
Odour:	odourless	
Odour threshold:	No data available.	
Colour:	grey	
pH value:		slightly alkaline
Melting point:		The product has not been tested.
Density:		not applicable, No data available.
Bulk density:	1,800 - 2,400 kg/m3	
Solubility in water:		insoluble
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

Safety Data Sheet

MasterEmaco T 545HT also SET 45 HW

Revision date : 2012/11/06
Version: 1.2

Page: 5/7
(30605450/SDS_GEN_CA/EN)

10. Stability and Reactivity

Conditions to avoid:

Avoid dust formation.

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:

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

Oxidizing properties:

not fire-propagating

11. Toxicological information

Repeated dose toxicity

Information on: crystalline silica

Assessment of repeated dose toxicity:

Repeated inhalation exposure may affect certain organs. The substance may cause increase in lung mass and lung tissue changes after repeated inhalation.

This product may contain greater than 0.1% crystalline silica. Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses.

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

Reproductive toxicity

Information on: boric acid

Causes impairment of fertility in laboratory animals.

Development:

Information on: boric acid

The substance caused malformations/developmental toxicity in laboratory animals.

Experiences in humans:

Safety Data Sheet

MasterEmaco T 545HT also SET 45 HW

Revision date : 2012/11/06
Version: 1.2

Page: 6/7
(30605450/SDS_GEN_CA/EN)

*Information on: crystalline silica
May cause silicosis.*

Other Information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

12. Ecological Information

Degradability / Persistence Biological / Abiological Degradation

Evaluation: Inherently biodegradable.
The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants.

Other adverse effects:

Ecological data are not available. Do not allow to enter soil, waterways or waste water channels.

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.

14. Transport Information

Land transport TDG

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

Safety Data Sheet

MasterEmaco T 545HT also SET 45 HW

Revision date : 2012/11/06
Version: 1.2

Page: 7/7
(30605450/SDS_GEN_CA/EN)

Registration status:

Chemical DSL, CA released / listed

WHMIS classification: D2A: Materials Causing Other Toxic Effects - Very toxic material



THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

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:

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END OF DATA SHEET