1. Substance/preparation and manufacturer/supplier identification

**MasterEmaco T 545 also EMACO T545**

Use: Product for construction chemicals

Manufacturer/supplier:
BASF Australia Limited (ABN 62 008 437 867)
Level 12, 28 Freshwater Place Southbank
Victoria 3006, AUSTRALIA
Telephone: +61 3 8855-6600
Telefax number: +61 3 8855-6511

Emergency information:
BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

2. Hazard identification

Classification of the substance and mixture:
No need for classification according to GHS criteria for this product.

Label elements and precautionary statement:

The product does not require a hazard warning label in accordance with GHS criteria.

Other hazards which do not result in classification:
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.
3. Composition/information on ingredients

**Chemical nature**

Preparation based on: silicates

modified with: phosphates

**Hazardous ingredients**

magnesium oxide

Content (W/W): \(\geq 7 \% - < 10 \%\)

CAS Number: 1309-48-4

Acute Tox.: Cat. 5 (oral)

boric acid

Content (W/W): \(\geq 0.1 \% - < 0.3 \%\)

CAS Number: 10043-35-3

Acute Tox.: Cat. 5 (oral)

Repr.: Cat. 1B (fertility)

Repr.: Cat. 1B (unborn child)

Aquatic Acute: Cat. 3

4. First-Aid Measures

**General advice:**

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

If inhaled:

After inhalation of dust. Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

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.

On contact with eyes:

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

On ingestion:

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:**

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

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

5. Fire-Fighting Measures

Suitable extinguishing media:
foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet

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

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:
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 for cleaning up or taking up:
For small amounts: Pick up with suitable appliance and dispose of. Dispose of contaminated material as prescribed.
For large amounts: Pick up with suitable appliance and dispose of. Dispose of absorbed material in accordance with regulations.
Avoid raising dust.

7. Handling and Storage

Handling
Avoid dust formation. 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:
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

Suitable materials for containers: Paper/Fibreboard
8. Exposure controls and personal protection

Components with occupational exposure limits

magnesium oxide, 1309-48-4;
- TWA value 10 mg/m³ (ACGIHTLV), Inhalable fraction
- TWA value 10 mg/m³ (OEL (AU)), fumes/smoke
- TWA value 10 mg/m³ (AU NOEL), fumes/smoke

boric acid, 10043-35-3;
- TWA value 2 mg/m³ (ACGIHTLV)
- STEL value 6 mg/m³ (ACGIHTLV)
- TWA value 2 mg/m³ (ACGIHTLV), Inhalable fraction
- STEL value 6 mg/m³ (ACGIHTLV), Inhalable fraction
- TWA value 2 mg/m³ (ACGIHTLV), Inhalable fraction
- STEL value 6 mg/m³ (ACGIHTLV), Inhalable fraction

Quartz (SiO2), 14808-60-7;
- TWA value 0.025 mg/m³ (ACGIHTLV), Respirable fraction
- TWA value 0.1 mg/m³ (OEL (AU))
- TWA value 0.1 mg/m³ (AU NOEL), Respirable dust
  Included in the regulation, but with no data values - See the regulation for further details
- See Silica, Crystalline.
- TWA value 0.1 mg/m³ (AU NOEL), Respirable dust

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:
impermeable gloves

Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:
light protective clothing

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).
9. Physical and Chemical Properties

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

pH value: not applicable

Boiling point: not determined
Flash point: not applicable

Flammability (solid/gas): not flammable
Lower explosion limit: not applicable
Upper explosion limit: not applicable

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.
Explosion hazard: not explosive
Vapour pressure: not applicable

Density: approx. 2.1 g/cm³
(23 °C)
Bulk density: approx. 1,500 - 2,000 kg/m³

Solubility in water: partly soluble
(20 °C)

Miscibility with water: partially (e.g. >10% <90%)

Hygroscopy: Non-hygroscopic

Viscosity, dynamic: not applicable
(23 °C)

Solids content: 100 %

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity
Conditions to avoid:
See MSDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
strong acids, strong bases, strong oxidizing agents, strong reducing agents

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:
The product is stable if stored and handled as prescribed/indicated.
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity
Assessment of acute toxicity:
Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. Based on available Data, the classification criteria are not met. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation
Assessment of irritating effects:
No irritation is expected under intended use and appropriate handling. Based on available Data, the classification criteria are not met.

Respiratory/Skin sensitization
Assessment of sensitization:
The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity
Assessment of mutagenicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Carcinogenicity
Assessment of carcinogenicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Reproductive toxicity
Assessment of reproduction toxicity:
12. Ecological Information

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

Mobility
Assessment transport between environmental compartments:
No data available.

Bioaccumulation potential
Assessment bioaccumulation potential:
Discharge into the environment must be avoided.

Additional information
Other ecotoxicological advice:
Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. Disposal Considerations

Observe national and local legal requirements.
Residues should be disposed of in the same manner as the substance/product.
Contaminated packaging:
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

**Domestic transport:**
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

**Other regulations**
If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Not Scheduled

Registration status:
AICS, AU released / listed

16. Other Information

In addition to the information given in the safety data sheet we refer to the product specific ‘Technical Information’. Reprotoxic substances (development) Category 2: Substances which should be regarded as if they cause developmental toxicity in humans.

Vertical lines in the left hand margin indicate an amendment from the previous version.