

MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003) and HSNO CoP 8-1 (September 2006)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: FORTA FERRO

Other Name: None

Recommended Use: Polypropylene synthetic fibres for improving the physical properties of concrete in the plastic and hardened state.

Company: BASF Construction Chemicals Australia Pty. Ltd. ABN 46 000 450 288
BASF New Zealand Ltd.

Address: 11 Stanton Road, Seven Hills, NSW, 2147 Australia
45 William Pickering Drive, Albany, Auckland, New Zealand

Telephone Number: +61 2 8811 9624 4200 +64 9 414 7233

Facsimile: +61 2 8811 9624 3299 +64 9 414 7244

Emergency Telephone Number: 0417 658 263

2. HAZARDS IDENTIFICATION

Hazard Classification: NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.
Non-Dangerous Goods for transport according to the ADG code.
Non Hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and NOHSC.

Hazard Designation: None

HSNO Classification: None

Risk Phrase(s): None

Safety Phrase(s): None

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Polypropylene		to 100%

4. FIRST AID MEASURES

Inhalation: Not a normal route of injury. If inhalation occurs, remove victim from exposure. If difficulty breathing, administer oxygen. If breathing stopped administer artificial respiration. Seek medical attention

Eyes: While holding eyes open, gently flood with plenty of fresh water for 15 minutes. If irritation persists or recurs seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.

Skin: Remove contaminated clothing. Wash contacted areas thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before re-use.

Ingestion: Do not induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

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5. FIRE FIGHTING MEASURES

<u>Suitable extinguishing media:</u>	Use extinguishing agent suitable for type of surrounding fire e.g. Water Spray or Fog, Foam, Carbon dioxide (CO ₂) and Dry Chemical.
<u>Hazards from combustion products:</u>	Oxides of carbon and nitrogen from combustion of dried residues.
<u>Precautions and equipment for fire fighters:</u>	None known
<u>Hazchem code:</u>	None allocated

6. ACCIDENTAL RELEASE MEASURES

<u>Methods and materials for containment and clean up:</u>	Caution slippery when spilt. Spills should be vacuumed or swept up and shovelled into appropriately labelled drums for re-use or disposal by a commercial waste disposal organisation. Refer to the local Waste Management Authority and comply with local regulations.
<u>Environmental precautions:</u>	Do not discharge into sewers or waterways.

7. HANDLING AND STORAGE

<u>Precautions for safe handling:</u>	Wear PPE as per Section 8.
<u>Conditions for safe storage:</u>	Store undercover in a cool dry area. Avoid strong oxidising agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Ventilation:</u>	Ventilation is generally not required
<u>Personal Protective Equipment (PPE):</u>	This product is not classified as hazardous, so PPE is not normally essential. However, it is generally recommended that contact with any chemical be kept to a minimum. Following is a guide to suggested PPE that may be utilised for handling this product.
<u>Respiratory protection:</u>	Not normally applicable.
<u>Glove type (AS2161):</u>	Impervious gloves e.g. PVC, butyl or nitrile rubber.
<u>Eye protection:</u>	Safety glasses or face shield or chemical worker's goggles.
<u>Clothing:</u>	General protective clothing such as overalls or long pants and a long sleeve shirt or a chemical apron. Remove contaminated clothing as soon as possible. Launder thoroughly before reusing. For large spills or ponded areas impervious footwear is preferred.
<u>Other:</u>	Use barrier creams to protect skin from contact with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Silver to grey fibres.
<u>Odour:</u>	Odourless
<u>pH:</u>	Not applicable
<u>Solubility in water:</u>	Insoluble

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<u>Specific gravity:</u>	approx. 0.91 g/cm ³ (23 °C)
<u>Melting Point:</u>	approx. 166 °C
<u>Freezing point:</u>	Not applicable
<u>Flash point:</u>	Non-flammable

10. STABILITY AND REACTIVITY

<u>Chemical stability:</u>	Stable. Not sensitive to mechanical impact.
<u>Incompatible materials:</u>	Strong mineral acids and oxidisers.
<u>Hazardous decomposition products:</u>	Oxides of carbon and nitrogen from combustion of dried residues.
<u>Hazardous reactions:</u>	Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Overexposure

<u>Inhalation:</u>	Not applicable.
<u>Eyes:</u>	May cause irritation.
<u>Skin contact:</u>	Repeated or prolonged skin contact may lead to irritation.
<u>Skin absorption:</u>	Does not absorb through skin.
<u>Ingestion:</u>	No adverse effects expected, however large amounts may cause nausea, diarrhoea and vomiting.
<u>Chronic:</u>	No comprehensive human studies have been conducted. Materials used in this product are not known carcinogens, mutagens or teratogens. There have been no reports in the literature of health effects in workers arising from long-term exposure to materials used in this product.

12. ECOLOGICAL INFORMATION

<u>Ecology:</u>	Do not discharge into sewers or waterways.
<u>Marine pollutant:</u>	Not listed

13. DISPOSAL CONSIDERATIONS

<u>Disposal method and containers:</u>	Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.
<u>Special precautions (landfill/incineration):</u>	None known.

14. TRANSPORT INFORMATION

<u>UN Number:</u>	None allocated
<u>UN Proper Shipping Name:</u>	Not regulated
<u>Dangerous Goods Class:</u>	None allocated
<u>Subsidiary Risk:</u>	None allocated
<u>EPG Card:</u>	None allocated

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Packing Group: None allocated

Hazchem Code: None allocated

15. REGULATORY INFORMATION

NICNAS / AICS: All components are listed
Poisons Schedule: Not Scheduled
HSNO Classifications: Not required. Non hazardous.
ERMA Group Standard: Not required. Non hazardous.
ERMA / NZIoC: All components are listed
Tracking: Not required
Approved Handler: Not required

16. OTHER INFORMATION

Reason for issue: Update information and inclusion of New Zealand ERMA/HSNO requirements.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.