

# SAFETY DATA SHEET



## BAYFERROX 686

Date of Issue: 23 September 2010

SDS NUMBER 00005592 NZ

### 1. Identification of the Substance/Mixture and Supplier.

Product name:	BAYFERROX 686
Application:	Inorganic pigment
Company:	Bayer New Zealand Limited, 3 Argus Place, Hillcrest, Auckland, 0627 New Zealand.
Telephone:	0800 652 436
Facsimile:	09 444 7191
Emergency telephone:	0800 734 607 Orica SH&E Shared services (24hr)

### 2. Hazards Identification.

Hazardous Status:	Not classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
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### 3. Composition/Information on Ingredients.

Chemical Entity  
Mixture of  $\text{Fe}_2\text{O}_3$  and  $\text{Fe}_3\text{O}_4$

### 4. First Aid Measures.

Swallowed:	No special measures required.
Inhaled:	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Obtain medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact:	No special measures required.
Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Further information:	Contact the National Poisons and Hazardous Chemicals Information centre in Dunedin, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.

### 5. Fire-Fighting Measures.

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### **Extinguishing Media**

Suitable:	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> .
Not Suitable:	None known.
Special Exposure Hazards	No specific fire or explosion hazard. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## **6. Accidental Release Measures.**

Personal precautions:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Put on appropriate personal protective equipment (see section 8). Hazard of slipping on spilt product.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Large Spill:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
Small Spill:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

## **7. Handling and Storage.**

Handling:	No special measures required.
Storage:	No special measures required.
<b><u>Packaging Materials</u></b>	
Recommended:	Use original container.

## **8. Exposure Control/Personal Protection**

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<b>Exposure limit values:</b>	Not available
<b>Recommended monitoring procedures:</b>	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
<b><u>Exposure controls</u></b>	
<b>Occupational exposure controls:</b>	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Hygiene measures:</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Respiratory protection:</b>	Recommended: Dust-protection mask
<b>Hand protection:</b>	Recommended: gloves
<b>Eye protection:</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: safety glasses with side-shields
<b>Skin protection:</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Environmental exposure controls:</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
<b>9. Physical and Chemical Properties</b>	
<b>Physical State</b>	Solid [powder]
<b>Colour</b>	Brown
<b>Odour</b>	Odourless
<b>Density</b>	4.8 kg/L (20 °C)
<b>Solubility</b>	Insoluble in the following materials: cold water
<b>pH</b>	5 to 8 [Conc. (% w/w): 5%]
<b>Melting point</b>	>1000°C (>1832°F)

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### 10. Stability and Reactivity

Stability:	The product is stable.
Conditions to avoid:	At temperatures above 80 °C the product may become unstable and oxidise. This generates additional heat which, under unfavourable conditions, may result in the combustion of flammable materials. The product should therefore not be stored near heat sources.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 11. Toxicological Information

#### Acute toxicity

Product/Ingredient	Result	Species	Dose	Exposure	Test
BAYFERROX 686	LD50 Oral *	Rat	>5000 mg/kg	-	-

\*Test results on an analogous product

#### Skin and mucous membrane compatibility / Sensitisation

**Skin contact:** Non-irritating\*

**Eye contact:** Non-irritating\*

### 12. Ecological Information

No known significant effects or critical hazards.

### 13. Disposal Considerations.

<b>Methods of disposal:</b>	Dispose of the product and container in accordance with local regulations, using approved waste contractors. Examine possibilities for re-utilisation. Product residues and uncleaned empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues.
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### 14. Transportation Information.

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Not regulated for transport.  
Not dangerous cargo. Keep separated from foodstuffs.

### 15. Regulatory Information.

Not classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

### 16. Other Information.

HSNO = Hazardous Substances and New Organisms Act.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.