

This attachment must be read in conjunction with the accompanying Safety Data Sheet.

Product
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Product name(s): Bayferrox® Dark Brown (686G) granules,  
Bayferrox® Dark Brown

(686G TM-R)

**Cover note date**

**October 2022**

**SDS date:**

**12.03.2021**

**HSNO Status:**

Not Hazardous

**DG Status:**

Not Dangerous Goods

Supplier
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Company:

Peter Fell Ltd

Address:

81 Patiki Rd, Avondale, Auckland 1026,

New Zealand

Telephone:

+64 9 828 6460

Email:

info@peterfell.co.nz

Emergency Telephone Number: 0800 764 766  
(National Poison Centre)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BAYFERROX 686 G

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : BAYFERROX 686 G

Product code : 04212452

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Colorants (pigments and dyestuffs), inorganic

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

Supplier : LANXESS Limited  
Tenax Road, Trafford Park  
M17 1WT Manchester, United Kingdom

Telephone : +4422188852288

E-mail address of person responsible for the SDS : [infosds@lanxess.com](mailto:infosds@lanxess.com)

#### 1.4 Emergency telephone number

0870 190 6777. National Chemical Emergency Centre

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Fe<sub>2</sub>O<sub>3</sub>, Fe<sub>3</sub>O<sub>4</sub>

#### Components

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Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
triiron tetraoxide	1317-61-9 215-277-5		>= 70 - < 90
diiron trioxide	1309-37-1 215-168-2		>= 20 - < 30

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.
- If inhaled : Move the victim to fresh air.  
Get medical attention if symptoms occur.  
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.  
If unconscious, place in recovery position and get medical attention immediately.  
Loosen tight clothing such as a collar, tie, belt or waistband.
- In case of skin contact : No special measures required.
- In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.  
If easy to do, remove contact lens, if worn.  
Continue to rinse for at least 10 minutes.  
Get medical attention if symptoms appear.
- If swallowed : No special measures required.

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

- Symptoms : See Section 11 for more detailed information on health effects and symptoms.
- Risks : See Section 11 for more detailed information on health effects and symptoms.

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

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

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Unsuitable extinguishing media : None known.

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

Specific hazards during fire-fighting : No information available.

Hazardous combustion products : The product itself does not burn.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information : Standard procedure for chemical fires.  
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : No action shall be taken involving any personal risk or without suitable training.  
Keep unnecessary and unprotected personnel from entering.  
Avoid breathing dust.  
Use personal protective equipment.  
Avoid dust formation.

### 6.2 Environmental precautions

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

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For disposal considerations see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.
- Hygiene measures : General industrial hygiene practice.
- When using do not eat, drink or smoke. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reusing.

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

- Requirements for storage areas and containers : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep containers tightly closed in a dry, cool and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : No materials to be especially mentioned.
- Further information on storage stability : Keep in a dry place. No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

- Specific use(s) : No data available

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
triiron tetraoxide	1317-61-9	TWA (Fumes)	5 mg/m <sup>3</sup> (Iron)	GB EH40
		STEL (Fumes)	10 mg/m <sup>3</sup> (Iron)	GB EH40
diiron trioxide	1309-37-1	TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40

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		TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40
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### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
triiron tetraoxide	Workers	Inhalation	Systemic effects, Long-term exposure	10 mg/m <sup>3</sup>
	Workers	Inhalation	Local effects, Long-term exposure	10 mg/m <sup>3</sup>

## 8.2 Exposure controls

### Engineering measures

This information is not available.

### Personal protective equipment

Eye protection : Safety glasses

Hand protection

Wearing time : < 60 min

Material : Leather gloves

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Additional body garments should be used (e.g. sleevelets, apron, disposable suit etc.), based on the task being performed.

Respiratory protection : Dust-protection mask if there is a risk of dust formation.

Filter type : P1 filter

### Environmental exposure controls

Water : The product should not be allowed to enter drains, water courses or the soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : solid

Colour : brown

Odour : odourless

Odour Threshold : No data available

pH : 3 - 7  
Concentration: 5 %

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Melting point/range	:	> 1,000 °C
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	4.5 g/cm <sup>3</sup> (20 °C)
Bulk density	:	300 - 1,000 kg/m <sup>3</sup>
Solubility(ies)		
Water solubility	:	insoluble
		insoluble
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

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### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

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.

### 10.5 Incompatible materials

Materials to avoid : No specific data.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Eye contact  
Skin contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Remarks: Test results on an analogous product

#### Components:

##### triiron tetraoxide:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

##### diiron trioxide:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: No information available.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.05 mg/l  
Exposure time: 4 h



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Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality

### Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### **triiron tetraoxide:**

Species: Rabbit  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

##### **diiron trioxide:**

Species: Rabbit  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### **triiron tetraoxide:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: No eye irritation  
GLP: yes

##### **diiron trioxide:**

Species: Rabbit  
Exposure time: 24 h  
Method: OECD Test Guideline 405  
Result: No eye irritation  
GLP: yes

### Respiratory or skin sensitisation

#### **Skin sensitisation**

Not classified based on available information.

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### Respiratory sensitisation

Not classified based on available information.

### Components:

#### triiron tetraoxide:

Exposure routes: Skin contact

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

GLP: no

#### diiron trioxide:

Test Type: Maurer optimisation test

Exposure routes: Dermal

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

GLP: No information available.

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### triiron tetraoxide:

Genotoxicity in vitro

: Test system: Bacteria

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test system: Chinese hamster fibroblasts

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test system: Chinese hamster fibroblasts

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

#### diiron trioxide:

Genotoxicity in vitro

: Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: No information available.

Remarks: Test results on an analogous product

Test Type: Chromosome aberration test in vitro

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Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: comet assay  
Species: Rat (male)  
Application Route: intratracheal  
Exposure time: 24 h  
Dose: 3,75 mg/kg bw  
Result: negative

Test Type: Chromosomal aberration assay  
Species: Rat (female)  
Application Route: Oral  
Exposure time: 24 h  
Dose: 2000 mg/kg bw  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Components:

#### **triiron tetraoxide:**

Species: Rat, (male and female)  
Exposure time: 914 days  
Dose: 600 milligram per kilogram  
Result: negative

#### **diiron trioxide:**

Species: Rat, (male and female)  
Application Route: Intraperitoneal  
Exposure time: 914 days  
Dose: 600 mg/kg body weight  
Result: negative

### Reproductive toxicity

Not classified based on available information.

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### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Product:

Remarks: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

#### Components:

##### **triiron tetraoxide:**

Species: Rat, male  
LOAEL: > 185,6 mg/m<sup>3</sup>  
Application Route: Inhalation  
Test atmosphere: dust/mist  
Exposure time: 14 d  
Dose: > 185,6 mg/m<sup>3</sup>  
Method: OECD Test Guideline 412  
GLP: yes  
Remarks: Subacute toxicity

##### **diiron trioxide:**

Species: Rat, male and female  
NOAEL: 4,7 mg/m<sup>3</sup>  
Application Route: Inhalation  
Test atmosphere: dust/mist  
Exposure time: 90 d  
Number of exposures: 5 days/week  
Dose: 4,7 - 16,6 - 52,1 mg/m<sup>3</sup>  
Method: OECD Test Guideline 413  
GLP: yes  
Remarks: Subchronic toxicity  
Test results on an analogous product

Species: Rat, male  
NOAEL: 10,1 mg/m<sup>3</sup>  
Application Route: Inhalation  
Test atmosphere: dust/mist  
Exposure time: 28 d  
Number of exposures: 5 days/week  
Dose: 10,1 - 19,7 - 45,6 - 95,8 mg/m<sup>3</sup>  
Method: OECD Test Guideline 412  
GLP: yes  
Remarks: Subacute toxicity  
Test results on an analogous product

### Aspiration toxicity

Not classified based on available information.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **triiron tetraoxide:**

- Toxicity to fish : LC0 (Danio rerio (zebra fish)): > 10,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Method: Regulation (EC) No. 440/2008, Annex, C.2  
Remarks: Fresh water
- Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Fresh water

##### **diiron trioxide:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 50,000 mg/l  
Exposure time: 96 h  
Analytical monitoring: no  
GLP: no  
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Fresh water
- Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
Exposure time: 3 h  
Analytical monitoring: no  
Method: ISO 8192

#### 12.2 Persistence and degradability

##### Components:

##### **triiron tetraoxide:**

- Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

##### **diiron trioxide:**

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Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

#### Components:

##### **diiron trioxide:**

Partition coefficient: n-octanol/water : Remarks: Not applicable

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

#### Product:

Additional ecological information : Ecotoxicological data are not available.  
No known significant effects or critical hazards.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : 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.  
When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues.

For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used.  
It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL).  
Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Hazard statements : Not dangerous cargo.  
Keep separated from foodstuffs.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International Chemical Weapons Convention (CWC)  
Schedules of Toxic Chemicals and Precursors : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors : Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import : Not applicable

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of dangerous chemicals

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

### 15.2 Chemical safety assessment

not applicable

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## SECTION 16: Other information

### Full text of other abbreviations

GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

### Further information

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.