# BAYFERROX 918LO SYNTHETIC IRON HYDROXIDE



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SECTION 1	I. IDENTIFICATION					
Produc	ct name	:	BAYFERROX 918	BLO SYNTHETIC IRON HYDROXIDE		
Produc	ct code	:	0000000056866179			
Manuf	acturer or supplier's	deta	ils			
Company		:	111 RIDC Park V	Regulatory Affairs		
Respo	nsible Department	:	(800) LANXESS (412) 809-1000 lanxesshes@lan	xess.com		
Emerg	ency telephone	:		0) 424-9300 or Outside U.S.A) and mention CCN12916. ncy Phone (800) 410-3063.		
Recon	nmended use of the c	hem	ical and restriction	ons on use		
Recom	nmended use	:	Colorants (pigmer	nts and dyestuffs), inorganic		

### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### **GHS** label elements

Not a hazardous substance or mixture.

### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : FeO(OH)

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### Components

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

If inhaled	:	Move to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash off with plenty of water. Continue to rinse for at least 10 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. If symptoms persist, call a physician.
In case of eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Keep eye wide open while rinsing. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist. Get medical attention if symptoms appear.
If swallowed	:	Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physi- cian or poison control center. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, call a physician.
Most important symptoms a	and	effects, both acute and delayed
Symptoms	:	May cause irritation with symptoms of reddening and itching. Eye: May cause irritation with symptoms of reddening, tear- ing and stinging.
Effects	:	May cause mechanical irritation (abrasion).
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

### **SECTION 5. FIRE-FIGHTING MEASURES**

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Suitable extinguishing media		:	In case of fire, use $CO_2$ .	In case of fire, use water spray (fog), foam, dry chemical or $CO_2$ .			
Unsuitable extinguishing media		:	None known.	None known.			
	Specific fighting	c hazards during fire	:	Do not allow run-o courses.	Do not allow run-off from fire fighting to enter drains or water courses.		
	Hazardous combustion prod- ucts		:	The product itself	does not burn.		
	Further information		:	Promptly isolate the vicinity of the incide No action shall be suitable training. Use extinguishing cumstances and the Collect contaminate must not be disch Fire residues and	re for chemical fires. The scene by removing all persons from the dent if there is a fire. Taken involving any personal risk or without measures that are appropriate to local cir- the surrounding environment. The fire extinguishing water separately. This arged into drains. Contaminated fire extinguishing water must accordance with local regulations.		
	Special for fire-	protective equipment fighters	:	and self-contained	ld wear appropriate protective equipment d breathing apparatus (SCBA) with a full ed in positive pressure mode.		

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Avoid dust formation. In case of inadequate ventilation wear respiratory protection. Use personal protective equipment.
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods and materials for containment and cleaning up	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, la- beled waste container. Dispose of wastes in an approved waste disposal facility.

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### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling :	<ul> <li>For personal protection see section 8.</li> <li>Avoid contact with skin and eyes.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms. In case of insufficient ventilation, wear suitable respiratory equipment.</li> <li>Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.</li> <li>Dispose of rinse water in accordance with local and national regulations.</li> <li>Workers should wash hands and face before eating, drinking and smoking.</li> </ul>
Conditions for safe storage :	<ul> <li>Store in accordance with local regulations.</li> <li>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.</li> <li>Keep containers tightly closed in a dry, cool and well-ventilated place.</li> <li>Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Electrical installations / working materials must comply with the technological safety standards.</li> </ul>
Further information on stor- : age stability	Keep in a dry place. No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

### Contains no substances with occupational exposure limit values. **Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Personal protective equipment Respiratory protection : Dust-protection mask if there is a risk of dust formation. Hand protection Material Gloves : Remarks The suitability for a specific workplace should be discussed : with the producers of the protective gloves. After contamina-4/12

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				change the gloves immediately and dispose g to relevant national and local regulations
Eye p	protection	:	Safety glasses	
Skin a	and body protection	:	Wear suitable pro	otective clothing.
Hygie	ene measures	:	When using do ne Wash face, hand handling. Wash contaminat	I hygiene practice. ot eat, drink or smoke. s and any exposed skin thoroughly after ted clothing before reusing. nated clothing and protective equipment ating areas.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Physical state	:	solid
Color	:	yellow
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	4 - 8 Concentration: 5 %
Melting point/range	:	> 1,832 °F / > 1,000 °C
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Self-ignition	:	No data available
Burning number	:	No data available
Upper explosion limit / Upper	:	No data available

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flan	nmability limit			
	Lower explosion limit / Lower flammability limit		No data available	9
Vap	oor pressure	:	Not applicable	
Rel	ative density	:	No data available	9
Der	nsity	:	3.8 - 4.2 g/cm3 (	68 °F / 20 °C)
Bull	k density	:	600 - 900 kg/m3	
	ubility(ies) Water solubility	:	insoluble	
:	Solubility in other solvents	:	No data available	9
	tition coefficient: n- anol/water	:	No data available	9
Dec	composition temperature	:	356 °F / 180 °C	
	cosity Viscosity, dynamic	:	No data available	2
	Viscosity, kinematic	:	No data available	9
Exp	losive properties	:	No data available	9
Oxi	dizing properties	:	No data available	9

### SECTION 10. STABILITY AND REACTIVITY

Reactivity		No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reac- tions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	From approx. 180 °C conversion into Fe2O3.
Incompatible materials	:	No specific data.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

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	zardous decomposition ducts	: No decompo	psition if stored and applied as directed.
ECTIC	N 11. TOXICOLOGICA		
The	e most important known	symptoms and effec	ts are described in Section 2 and/or Section 4.
Inh Eye	ormation on likely route alation e contact in contact	es of exposure	
	<b>ute toxicity</b> t classified based on ava	ilable information.	
	oduct: ute oral toxicity	: LD50 Oral (R	at, male): > 10,000 mg/kg
Acı	ute inhalation toxicity	: LC50 (Rat): > Exposure tim Test atmospl	
-	in corrosion/irritation t classified based on ava	ilable information.	
	<mark>oduct:</mark> sult	: No skin irritat	ion
	<b>rious eye damage/eye i</b> t classified based on ava		
	<mark>oduct:</mark> sult	: No eye irritat	on
Re	spiratory or skin sensit	ization	
	in sensitization t classified based on ava	ilable information.	
	<b>spiratory sensitization</b> t classified based on ava	ilable information.	
	rm cell mutagenicity t classified based on ava	ilable information.	
Ca	rcinogenicity		
	t classified based on ava		esent at levels greater than or equal to 0.1% is

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	identified as	probable, possible or	confirmed human carcinogen by IARC.					
OSHA		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.						
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.						
-	ductive toxicity assified based on avai	lable information.						
	-single exposure assified based on avai	lable information.						
STOT	-repeated exposure							
Not cla	assified based on avai	d based on available information.						
-	ation toxicity							
Not cla	assified based on avai	lable information.						
SECTION 1	12. ECOLOGICAL IN	FORMATION						
Ecoto	Ecotoxicity							
Produ	<u>ct:</u>							
Toxicit	ry to fish	Exposure time:	Test Guideline 203					

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes Remarks: Fresh water	
Toxicity to microorganisms	:	EC50 (activated sludge): > 10,000 mg/l	

Toxicity to microorganisms	•	EC50 (activated studge). > 10,000 mg/t
		Exposure time: 3 h
		Method: ISO 8192
		GLP: no
		Remarks: Fresh water

### Persistence and degradability

### Product:

Biodegradability	: Remarks: Not applicable
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	cumulative potential ta available		
	l <b>ity in soil</b> Ita available		
Other	adverse effects		
<u>Produ</u>	uct:		
Additi matio	onal ecological infor- n		cal data are not available. nificant effects or critical hazards.
SECTION 13. DISPOSAL CONSIDERATIONS			

#### **Disposal methods**

RCRA - Resource Conserva- tion and Recovery Authoriza- tion Act	:	If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)
Waste from residues	:	The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Empty containers retain product residue; observe all precau- tions for product. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable for product as supplied.

### **Domestic regulation**

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### 49 CFR

Not regulated as a dangerous good

### Hazard and Handling Notes.

Not dangerous cargo, Keep separated from foodstuffs

### **SECTION 15. REGULATORY INFORMATION**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **US State Regulations**

### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know

C.I. Pigment Yellow 42

51274-00-1

### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL).

### **TSCA** inventory

TSCA

: All substances listed as active on the TSCA inventory

### **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

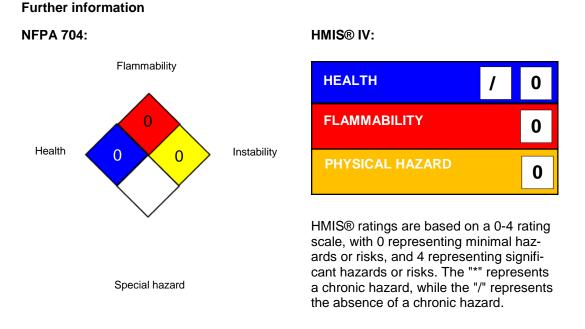
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### **SECTION 16. OTHER INFORMATION**



### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response. Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response: EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-

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lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.