# **BAYFERROX 222 FM**



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ECTION 1. IDENTIFICATION							
Produc	ct name	:	: BAYFERROX 222 FM				
Produc	ct code	:	00000000000176	4474			
<b>Manuf</b> Compa	acturer or supplier's any		LANXESS Corpo Product Safety & 111 RIDC Park V	Regulatory Affairs			
Respo	nsible Department	:	(800) LANXESS (412) 809-1000 lanxesshes@lan	xess.com			
Emerg	ency telephone	:	(703) 527-3887 (	0) 424-9300 or Outside U.S.A) and mention CCN12916. ency Phone (800) 410-3063.			
Recon	nmended use of the c	hem	ical and restriction	ons on use			
<b>D</b>							

Recommended use : Colorants (pigments 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 : Fe2O3

#### Components

No hazardous ingredients

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SECTION	4. FIRST AID MEAS	URES	
lf inha	aled	: Move to fresh a Get medical at	air. tention if symptoms occur.
In cas	se of skin contact	Take off contar Wash contamir	blenty of water. se for at least 10 minutes. minated clothing and shoes immediately. nated clothing before re-use. ersist, call a physician.
In cas	se of eye contact	the upper and Continue to rin Keep eye wide Remove conta Protect unharm If eye irritation	se for at least 10 minutes. open while rinsing. ct lenses.
lf swa	allowed	cian or poison If vomiting occu does not enter Never give any If unconscious, attention imme Maintain open Loosen tight clo	e vomiting unless directed to do so by a physi- control center. urs, the head should be kept low so that vomit the lungs. thing by mouth to an unconscious person. , place in recovery position and get medical diately.
Most	important symptom	s and effects, both a	cute and delayed
Symp	otoms		tation with symptoms of reddening and itching. se irritation with symptoms of reddening, tear- ng.
Effec	ts	: May cause me	echanical irritation (abrasion).
Prote	ction of first-aiders	: No action shall	be taken involving any personal risk or without

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

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $CO_2$ .
Unsuitable extinguishing	:	None known.

suitable training.

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	media				
	Specific fighting	c hazards during fire	:	Do not allow run-o courses.	off from fire fighting to enter drains or water
	Hazard ucts	ous combustion prod-	:	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 lent 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.
	•	protective equipment fighters	:	and self-contained	d wear appropriate protective equipment 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.

#### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	For personal protection see section 8. Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms.
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		In case of insufficient ventilation, wear suitable respirate equipment. Keep in the original container or an approved alternative from a compatible material, kept tightly closed when no use. Dispose of rinse water in accordance with local and nat regulations. Workers should wash hands and face before eating, dri and smoking.		
Conditions for safe storage		Store in origina dry, cool and w materials (see Keep container ventilated place Containers that and kept uprigh Electrical instal	ance with local regulations. I container protected from direct sunlight in a ell-ventilated area, away from incompatible Section 10) and food and drink. s tightly closed in a dry, cool and well- e. have been opened must be carefully resealed to prevent leakage. lations / working materials must comply with al safety standards.	
	her information on stor-	: Keep in a dry p	lace.	
	stability	No decomposit	ion if stored and applied as directed.	

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Iron (III) Oxide	1309-37-1	TWA (Res- pirable par- ticulate mat- ter)	5 mg/m3	ACGIH
		TWA (Fumes)	10 mg/m3	OSHA Z-1
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-1

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.

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	protection erial	:	Gloves	
Remarks		:	with the producers tion with product of	a specific workplace should be discussed s of the protective gloves. After contamina- change the gloves immediately and dispose g to relevant national and local regulations
Eye pro	otection	:	Safety glasses	
Skin ar	nd body protection	:	Wear suitable pro	tective clothing.
Hygien	e measures	:	Wash face, hands handling. Wash contaminat	ot eat, drink or smoke. s and any exposed skin thoroughly after ed clothing before reusing. nated clothing and protective equipment

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	powder
Physical state	:	solid
Color	:	red
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
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	Self-igr	nition	:	No data available	e
	Burning	g number	:	No data available	e
		explosion limit / Upper bility limit	:	No data available	e
		explosion limit / Lower bility limit	:	No data available	e
	Vapor p	oressure	:	Not applicable	
	Relativ	e density	:	No data available	e
	Density	/	:	5 g/cm3 (68 °F /	20 °C)
	Bulk de	ensity	:	300 - 1,000 kg/m	13
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Solu	ubility in other solvents	:	No data available	e
	Partitio octanol	n coefficient: n- /water	:	No data available	9
	Decom	position temperature	:	No data available	e
	Viscosi Visc	ty cosity, dynamic	:	No data available	e
	Visc	cosity, kinematic	:	No data available	e
	Explosi	ve properties	:	No data available	e
	Oxidiziı	ng 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.
		No decomposition if stored and applied as directed.
Possibility of hazardous reac- tions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No data available
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	patible materials dous decomposition cts	: No specific data : No decompositio	on if stored and applied as directed.

#### SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

#### Information on likely routes of exposure

Inhalation Eye contact Skin contact

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is 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.
IARC OSHA 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.

#### **Reproductive toxicity**

Not classified based on available information.

#### STOT-single exposure

Not classified based on available information.

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STOT	-repeated exposure			
Not c	lassified based on availa	able	information.	
Repe	ated dose toxicity			
Produ	uct:			
Rema	arks	:	iron oxide can c	sure to high concentrations of dust containing ause a benign condition termed "pulmonary condition is not associated with any physical ng function.
-	ration toxicity	abla	information	
	lassified based on availa	able	information.	
	er information			
<u>Produ</u> Rema			No data available	
i toine		•		5
Persi	ata available <b>stence and degradabi</b> l ata available	lity		
	ccumulative potential ata available			
	<b>lity in soil</b> ata available			
Othe	r adverse effects			
Produ	uct:			
	ional ecological infor-	:		data are not available. cant effects or critical hazards.
ECTION	13. DISPOSAL CONSI	DEF	ATIONS	
Dispo	osal methods			
RCRA	A - Resource Conserva- nd Recovery Authoriza-		hazardous waste er, under RCRA, determine at the	e purchased form, this product would not be a e either by listing or by characteristic. Howev it is the responsibility of the product user to time of disposal, whether a material contain- or derived from the product should be classi-

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		fied as a hazard	ous waste. (40 CFR 261.20-24)
Waste	from residues	wherever possib This material and way. Empty container tions for product Avoid dispersal of soil, waterways, Waste disposal s	d its container must be disposed of in a safe s retain product residue; observe all precau-

#### **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

#### 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 comp known CAS numbers that exceed the threshold (D reporting levels established by SARA Title III, Sect	e Minimis)

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US St	ate Regulations			
Massa	achusetts Right To Kr Iron (III) Oxide	IOW	1309-37-1	> 98
Massa	achusetts Right To Kr Iron (III) Oxide	IOW	1309-37-1	
Penns	<b>sylvania Right To Kno</b> Iron (III) Oxide	W	1309-37-1	> 98
Penns	<b>sylvania Right To Kno</b> Iron (III) Oxide	W	1309-37-1	

#### 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

: All substances listed as active on the TSCA inventory

#### **TSCA** list

No substances are subject to a Significant New Use Rule.

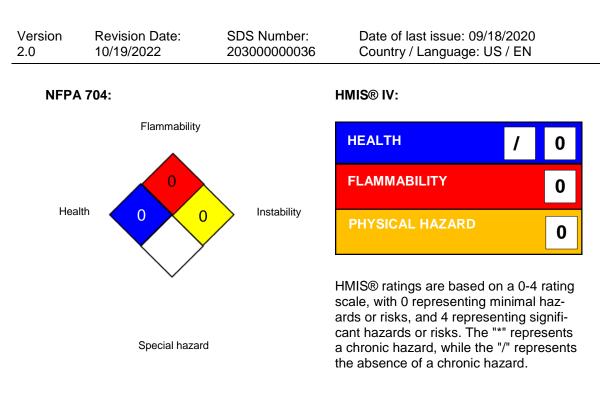
No substances are subject to TSCA 12(b) export notification requirements.

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

Further information

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Full text of o	other abb	previations
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ACGIH OSHA Z-1	USA. ACGIH Threshold Limit Values (TLV) USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA OSHA Z-1 / TWA	8-hour, time-weighted average 8-hour time weighted average

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, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances;



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(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.