according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version Revision Date: SDS Number: Date of last issue: 05/31/2022 2.0 04/28/2025 203000010022 Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : BAYFERROX 511

Product code : 00000000062094679

Manufacturer or supplier's details

Company : LANXESS Corporation

Product Safety & Regulatory Affairs

111 RIDC Park West Drive

Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS

(412) 809-1000

lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or

(703) 527-3887 (Outside U.S.A) and mention CCN12916.

Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

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.

Other hazards

None known.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : Fe2O3

Components

Any concentration shown as a range is to protect confidentiality or is due to batch variation. No hazardous ingredients

SECTION 4. FIRST AID MEASURES

1/11

according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version Revision Date: SDS Number: Date of last issue: 05/31/2022 2.0 04/28/2025 203000010022 Country / Language: US / EN

If inhaled : Move to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and water.

Get medical attention if symptoms occur.

In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting

the upper and lower eyelids. Remove contact lenses.

Get medical attention if symptoms appear.

If swallowed : Rinse mouth with water.

Do NOT induce vomiting.

Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

Symptoms : May cause irritation with symptoms of reddening and itching.

Eye: May cause irritation with symptoms of reddening, tearing

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.

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

No action shall be taken involving any personal risk or without

suitable training.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or

 CO_2 .

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

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.

No action shall be taken involving any personal risk or without

suitable training.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Print Date: 05/30/2025

2/11

according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version Revision Date: SDS Number: Date of last issue: 05/31/2022 2.0 04/28/2025 203000010022 Country / Language: US / EN

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency 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. In case of insufficient ventilation, wear suitable respiratory

equipment.

Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in

use

Dispose of rinse water in accordance with local and national

regulations.

Workers should wash hands and face before eating, drinking

and smoking.

3/11

Conditions for safe storage : 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.

according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version Revision Date: SDS Number: Date of last issue: 05/31/2022 2.0 04/28/2025 203000010022 Country / Language: US / EN

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Containers that have been opened must be carefully resealed

and kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

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

inert or nuisance dust 50 Million particles per cubic foot

Value type (Form of exposure): TWA (total dust)

Basis: OSHA Z-3

15 mg/m3

Value type (Form of exposure): TWA (total dust)

Basis: OSHA Z-3

5 mg/m3

Value type (Form of exposure): TWA (respirable fraction)

Basis: OSHA Z-3

15 Million particles per cubic foot

Value type (Form of exposure): TWA (respirable fraction)

Basis: OSHA Z-3

Dust, nuisance dust and par-

ticulates

10 mg/m3

Value type (Form of exposure): PEL (Total dust)

Basis: CAL PEL

5 mg/m3

Value type (Form of exposure): PEL (respirable dust fraction)

Basis: CAL PEL

Components	CAS-No.	Value type (Form of exposure)	Control parameters / 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

according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version Revision Date: SDS Number: Date of last issue: 05/31/2022 2.0 04/28/2025 203000010022 Country / Language: US / EN

TWA (total dust)	15 mg/m3	OSHA Z-1
TWA (respir-		OSHA Z-1
able fraction)		

Engineering measures : Good general ventilation should be sufficient to control work-

er 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 contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective clothing.

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.

Remove contaminated clothing and protective equipment

before entering eating areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Physical state : solid

Color : red

Odor : odorless

Odor Threshold : No data available

pH : substance/mixture is non-soluble (in water)

Melting point/ range : No data available

5/11

according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version Revision Date: SDS Number: Date of last issue: 05/31/2022 2.0 04/28/2025 203000010022 Country / Language: US / EN

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

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : Not applicable

Relative density : No data available

Density : ca. 5 g/cm3

Bulk density : 0.57 kg/m3

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Dust explosion class : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this

product or its ingredients.

6/11

according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version Revision Date: SDS Number: Date of last issue: 05/31/2022 2.0 04/28/2025 203000010022 Country / Language: US / EN

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition

products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

Eve contact

Skin contact

Acute toxicity

Not classified due to lack of data.

Skin corrosion/irritation

Not classified due to lack of data.

Serious eye damage/eye irritation

Not classified due to lack of data.

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

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.

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

7/11

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified due to lack of data.

according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version **Revision Date:** SDS Number: Date of last issue: 05/31/2022 04/28/2025 203000010022 2.0 Country / Language: US / EN

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Product:

Remarks Long-term exposure to high concentrations of dust containing

> iron oxide can cause a benign condition termed "pulmonary siderosis". This condition is not associated with any physical

impairment of lung function.

Aspiration toxicity

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

Ecotoxicological data are not available.

No known significant 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)

The generation of waste should be avoided or minimized Waste from residues

wherever possible.

This material and its container must be disposed of in a safe

way.

8/11

according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version Revision Date: SDS Number: Date of last issue: 05/31/2022 2.0 04/28/2025 203000010022 Country / Language: US / EN

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

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

Iron (III) Oxide 1309-37-1

Pennsylvania Right To Know

Print Date: 05/30/2025

9/11

according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version Revision Date: SDS Number: Date of last issue: 05/31/2022 2.0 04/28/2025 203000010022 Country / Language: US / EN

Iron (III) Oxide 1309-37-1 sodium sulphate 7757-82-6

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.

TSCA inventory

TSCA : All substances listed as active on the TSCA inventory

TSCA list

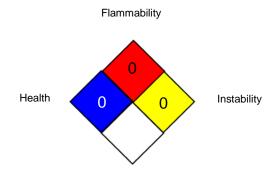
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard

HMIS® IV:

HEALTH	1	0
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CAL PEL : California permissible exposure limits for chemical contami-

nants (Title 8, Article 107)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA : 8-hour, time-weighted average

Print Date: 05/30/2025

10 / 11

according to the OSHA Hazard Communication Standard



BAYFERROX 511

Version Revision Date: SDS Number: Date of last issue: 05/31/2022 2.0 04/28/2025 203000010022 Country / Language: US / EN

CAL PEL / PEL : Permissible exposure limit
OSHA Z-1 / TWA : 8-hour time weighted average
OSHA Z-3 / TWA : 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; (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

Revision Date : 04/28/2025

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.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.

US / EN