



Safety Data Sheet

Ferriplus

OSHA HCS 2024
Canadian Workplace Hazardous Material Information System (WHMIS) 2015 rev 2022
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015
GHS (Globally Harmonized System)

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

1.1. Product identifier

Product name Ferriplus
Pure substance/mixture Mixture

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

Recommended use Plant nutrient. Fertilizer.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company: Miller Chemical and Fertilizer, LLC
120 Radio Rd
Hanover, PA 17331
Tel.: 717-632-8921
Fax.: 717-646-1104

Internet <http://www.millerchemical.com>

E-mail info@millerchemical.com

1.4. Emergency telephone number CHEMTREC: +1 800 424 9300 or International 1+703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Physical Hazards Combustible dust

Health Hazards Not classified.

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Environmental Hazard Not classified.**2.2. Label elements****Symbols/Pictograms** None**Signal Word** Warning**Hazard Statements** If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.**Precautionary Statements****Additional information** Not applicable**Hazards not otherwise classified (HNOC)** Dust contact with the eyes can lead to mechanical irritation**SECTION 3: Composition/information on ingredients****Pure substance/mixture** Substance

Chemical Name	CAS NUMBER:	Weight-%
Phenol	108-95-2	0.1 - < 1
Ethylenediamine	107-15-3	1 - < 5

Additional information *The exact percentage (concentration) of composition has been withheld as a trade secret.**SECTION 4: First aid measures****4.1. Description of first aid measures****General Advice** Remove contaminated clothing.**Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Protect unharmed eye.**Skin Contact** IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and shoes.**Ingestion** If swallowed: Rinse mouth and then drink plenty of water. Never give anything by mouth to an unconscious person.**Inhalation** If inhaled: Keep patient calm, remove to fresh air. Rinse nose and mouth with water.**4.2. Most important symptoms and effects, both acute and delayed** No significant symptoms are expected due to the non-classification of the product.**4.3. Indication of any immediate medical attention and special treatment needed** Note to physician. Treatment - Symptomatic treatment (decontamination, vital functions).

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None known.

5.2. Special hazards arising from the substance or mixture

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

Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

5.3. Advice for firefighters**Special protective equipment for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

Fire-fighting measures

Water mist may be used to cool closed containers. No special fire protection measures are necessary. Standard procedure for chemical fires.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorized persons entering the zone.

For non-emergency personnel

Keep unauthorized personnel away.

For emergency responders

Keep unauthorized personnel away. Use personal protection recommended in Section 8.

6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

For personal protection see section 8. Avoid creating dust. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. No special handling advice required.

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7.2. Conditions for safe storage, including any incompatibilities Keep in a dry place. Store at room temperature in the original container. Keep container tightly closed.

7.3. Specific end use(s) See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Phenol - 108-95-2

OSHA - Final PELs -TWA 5 ppm TWA
19 mg/m³ TWA

Canada - British Columbia - OEL - Skin Skin notation
Notations

Canada - Ontario - OEL - TWA EVs 5 ppm

Ethylenediamine - 107-15-3

OSHA - Final PELs -TWA 10 ppm TWA
25 mg/m³ TWA

Canada - British Columbia - OEL - Skin Skin notation
Notations

Canada - Ontario - OEL - TWA EVs 10 ppm

Biological Limit Values No information available

8.2. Exposure controls

Engineering Measures Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).
Skin and Body Protection Wear suitable protective clothing.
Hand Protection For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Nitrile rubber

Respiratory Protection In case of inadequate ventilation wear respiratory protection. Half mask with a particle filter P2 (EN 143)

Hygiene Measures The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc.

Environmental Exposure Controls Dispose of in accordance with local regulations.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance:**

Physical State	Granular
Color	Red Brown
Odor	Odorless
pH:	7.0 - 9.0 (1% in DI water)
Melting point / Freezing point	Decomposes Prior to Melting
Boiling Point / Boiling Range	Not applicable
Freezing Point	Not determined
Flash Point	Not applicable
Evaporation Rate	Not determined
Flammability	If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
Vapor Pressure	Not determined
Relative Vapor Density	Not determined
Density	No data available
Bulk Density	500 - 700 kg/m ³
Water Solubility	ca. 50 g/l
Partition coefficient	log Pow: < 0
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No information available.
Kinematic viscosity	No data available
Oxidizing Properties	Not oxidizing
Particle Characteristics	No information available
Percent Volatile	No data available
VOC Content (%)	Not applicable

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

No data available

9.2.2. Other safety characteristics

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
10.4. Conditions to avoid	Dust formation
10.5. Incompatible materials	Nitrogen oxides (NO _x)
10.6. Hazardous decomposition products	None known

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SECTION 11: Toxicological information

General Information Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Information on Likely Routes of Exposure

Inhalation	Avoid inhalation of the product
Skin	Avoid contact with skin and clothing
Eyes	Avoid contact with eyes
Ingestion	Do not induce vomiting without medical advice If conscious, wash out mouth and give water to drink

11.1. Information on toxicological effects**Phenol**

Oral LD50	>5000 mg/kg (rat)
NTP (National Toxicology Program)	Male Rat - No Evidence;Female Rat - No Evidence;Male Mice - No Evidence;Female Mice - No Evidence

Ethylenediamine

LD50s and LC50s	14.7 mg/L Inhalation LC50 Rat 4 h
Oral LD50	282 mg/kg Mouse
Dermal LD50	660 mg/kg Rat
Inhalation LC50	0.32 mg/l Rat

Ferriplus

Acute Toxicity	Based on available data, the classification criteria are not met.
Respiratory Sensitization	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation	Based on available data, the classification criteria are not met.
Skin Sensitization	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	No data available No components present at 0.1% or greater are classified as carcinogens by the NTP, IACR or OSHA.
Specific target organ toxicity - Single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - Repeated exposure	Based on available data, the classification criteria are not met.

11.2. Information on other hazards

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11.2.1. Endocrine disrupting properties No endocrine disruptors present in concentrations $\geq 0.1\%$

11.2.2. Other information Not applicable

SECTION 12: Ecological information

12.1. Toxicity Not considered to be harmful to aquatic life

Phenol

WGK Classification (AwSV) 107 WGK: 2

Ethylenediamine

WGK Classification (AwSV) 103 WGK: 1

12.2. Persistence and degradability No data available

12.3. Bioaccumulative potential No data available

Partition coefficient log Pow: < 0

12.4. Mobility in soil No data available

12.5. Results of PBT and vPvB assessment No data available

12.6. Endocrine disrupting properties No endocrine disruptors present in concentrations $\geq 0.1\%$

12.7. Other Adverse Effects None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Methods If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extend of contamination may require use of specialized disposal methods. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

Mode of Transportation (Road, Water, Air, Rail)

TDG -Canada	Not regulated
DOT	Not regulated
ADR	Not regulated
RID	Not regulated
ADN	Not regulated

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IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number or ID number None

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards No

14.6. Special precautions for user Not applicable

14.7. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

Global Inventories

Pure substance/mixture Substance

Chemical Name	CAS Number	Canada (DSL)	Mexico	TSCA: United States
Phenol	108-95-2	Present (DSL)	Y	Present
Ethylenediamine	107-15-3	Present (DSL)	Y	Present

Y: Complies ; A: Active ; - / N: Exempt / Not Listed

EPA

SARA 302

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

CERCLA Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 311/312 Hazardous Categorization

Combustible dusts

CWA (Clean Water Act)

Phenol (CAS# 108-95-2)

0.1 - < 1 %

CAA (Clean Air Act)

Not regulated

U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Phenol	108-95-2	N	Extraordinarily hazardous	Skin	1487	Environmental hazard

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Ethylenediamine	107-15-3	N	Extraordinarily hazardous	Present	0875	Environmental hazard
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Y: Listed ; N: Not Listed

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any Proposition 65 chemicals

CANADA**WHMIS**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

SECTION 16: Other information**Prepared by**

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Reason for Version

OSHA (Occupational Safety and Health Administration of the US Department of Labor).

Abbreviations and acronyms

OSHA (Occupational Safety and Health Administration of the US Department of Labor)
WHMIS (Workplace Hazardous Materials Information System)
GHS (Globally Harmonized System)
IARC (International Agency for Research on Cancer)
PPE (Personal Protection Equipment)
TWA (Time-Weighted Average)
TLV® (Threshold Limit Value)
STEL (Short Term Exposure Limit)
RQ (Reportable Quantity) (RQ/% in mixture)
DOT (Department of Transportation)
TDG (Transport of Dangerous Goods) Canada
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)
ICAO (International Civil Aviation Organization)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 a 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

End of Safety Data Sheet