

SECTION 1: Identification
1.1 Identification

Product Form: Mixture
 Product Name: NutraFix Fertilizer

1.2 Recommended use and restrictions on use

Use of the Substance/Mixture Fertilizer

1.3 Supplier

Manufacturer:
 Edaphix LLC.
 1075 Boylan Road
 Bozeman, MT 59715 – USA
 T – 406-600-6563

1.4 Emergency telephone number

Emergency number: 24 Hour Emergency

HAZMAT Response: (800) 229-5252
 EPA National Response Center (800) 424-8802

SECTION 2: Hazards(s) Identification
2.1 Classification of substance or mixture
GHS-US classification

Skin corrosion/irritation, Category 2315	Causes skin irritation
Serious eye damage/eye irritation, Category 2 H319	Causes serious eye irritation
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335	May cause respiratory irritation
Reproductive toxicity, Category 2 H361	Suspected of damaging fertility or the unborn child
Full text of H statements: see section 16	

2.2 GHS Label elements, including precautionary statements
GHS-US labeling

Hazard pictograms (GHS-US):



Signal word (GHS-US):

Warning

Hazard statements (GHS-US):

H302- Harmful if swallowed
 H315 – Causes skin irritation
 H319 - Causes serious eye irritation
 H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS-US):

P201 - Review product label before use
 P202 - Do not handle until all safety precautions have been read and understood
 P261- Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 - Wash skin thoroughly after handling
 P280 - Wear eye protection, protective clothing, protective gloves
 P302+P352 – If on skin: Washing with plenty of water
 P304+P340 – If inhaled: remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P308+P313 - If exposed or concerned: Get medical advice/attention
 P332+P313 – If skin irritation occurs: Get medical attention
 P337+P313 - If eye irritation persists: Get medical advice/attention
 P405 - Store locked up
 P501 - Dispose of contents/container to comply with local, state, and federal regulations

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on Ingredients
3.1 Substances

Not applicable

Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / May 20, 2024 / Rules and Regulations
Date of issue: 05/13/2020 Revision date:11/11/24 Supersedes: 08/12/2020 Version: 4.0

3.2 Mixtures

Name	Product Identifier	%	GHS-US classification
Disodium tetraborate pentahydrate	(CAS-No.) 12179-04-3	75-80	Eye Irrit. 2, H319 Repr. 2, H361
Monoammonium phosphate	(CAS-No.) 7722-76-1	5-10	Not Classified
Calcium sulfate (gypsum)	(CAS-No.) 7778-18-9	<= 5	Eye Irrit. 2B, H320 STOT SE 3, H335
Potassium magnesium phosphate	Not applicable	<= 5	Not Classified
iron(II)sulfate	(CAS-No.) 7720-78-7	<= 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

SECTION 4: First Aid Measures

4.1 Description of first aid measures

First-aid measures general:	IF exposed or concerned: Get medical advice/attention
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing
First-aid measures after skin contact:	Wash skin with plenty of water. Get medical attention if symptoms occur
First-aid measures after eye contact:	Rinse eyes with water as a precaution. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion:	Call a poison center/doctor/physician if you feel unwell. If swallowed, seek medical advice immediately and show product container or label.

4.2 Most important symptoms and effects (acute and delayed)

Symptoms/injuries after inhalation:	May cause slight irritation
Symptoms/injuries after skin contact:	May cause slight irritation to the skin
Symptoms/injuries after eye contact:	Irritation to eyes
Symptoms/injuries after ingestion:	May cause gastrointestinal discomfort

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically

SECTION 5: Fire-fighting Measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measure

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Sweep up spilled solid material, try not to create dust. Notify authorities if product enters sewers or public waters.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling Ensure good ventilation. Review product label before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / May 20, 2024 / Rules and Regulations
Date of issue: 05/13/2020 Revision date:11/11/24 Supersedes: 08/12/2020 Version: 4.0

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store in a well-ventilated place. Keep cool. Avoid contact with water or humidity
Storage area Store in a cool, dry place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Disodium tetraborate pentahydrate (12179-04-3)		
NIOSH	NIOSH REL (TWA) (mg/m ³)	1 mg/m ³ – 10 hours
ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ – 8 hours (Form: Inhalable fraction)
Monoammonium phosphate (7722-76-1)		
OSHA	OSHA PELs (mg/m ³)	15 total dust, 5 respirable fraction
ACGIH	ACGIH TLVs (mg/m ³)	10 total dust, 3 respirable fraction
Calcium sulfate (gypsum) (7778-18-9)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ total dust, 5 mg/m ³ respirable fraction
iron(II)sulfate (7720-78-7)		
ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³

Legend

OSHA: Occupational Safety and Health Administration
TWA: Time-Weighted Average
PEL: Permissible Exposure Limit
NIOSH: National Institute for Occupational Safety and Health
ACGIH: American Conference of Governmental Industrial Hygienists
REL: Recommended Exposure Limit
TLV: Threshold Limit Value

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation.
Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection: Protective gloves
Eye protection: Safety glasses should be worn where dust is generated and there is a potential that eye contact may occur.
Skin and body protection: Wear suitable protective clothing
Respiratory protection: Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Granules	Odor threshold:	No data available
Auto-ignition temperature:	No data available	Oxidizing properties:	No data available
Boiling point:	No data available	pH:	No data available
Decomposition temperature:	No data available	Physical state:	Solid
Explosion limits:	No data available	Relative density:	No data available
Explosive properties:	No data available	Relative evaporation rate (butyl acetate=1):	No data available
Flammability (solid, gas):	No data available	Relative vapor density at 20 °C:	No data available
Flash point:	No data available	Solubility:	No data available
Freezing point:	No data available	Vapor pressure:	No data available
Log Pow:	No data available	Viscosity, dynamic:	No data available
Melting point:	No data available	Viscosity, kinematic:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong reducing agents

10.6. Hazardous decomposition products

No additional information available

Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / May 20, 2024 / Rules and Regulations
Date of issue: 05/13/2020 Revision date:11/11/24 Supersedes: 08/12/2020 Version: 4.0

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

Disodium tetraborate pentahydrate (12179-04-3)	
LC50 inhalation (dust and mist) rat	>2 mg/l
LD50 dermal rabbit	>2000 mg/kg body weight
LD50 oral rat	3305 mg/kg body weight
Monoammonium phosphate (7722-76-1)	
LD50 oral rat	2000 mg/kg
LD50 dermal rat	5000 mg/kg
Calcium sulfate (gypsum) (7778-18-9)	
LD50 oral rat	>1584 mg/kg bodyweight
iron(II)sulfate (7720-78-7)	
LD50 oral rat	319 mg/kg
ATE US oral	319 mg/kg body weight

Skin corrosion/irritation : Direct contact may cause local irritation, but is not expected to cause significant tissue damage.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single exposure: May cause respiratory irritation
Specific target organ toxicity – repeated exposure: Not classified
Aspiration hazard: Not classified
Viscosity, kinematic: No data available
Symptoms/injuries after inhalation: May cause slight irritation. Symptoms may include discomfort, coughing, sneezing, and shortness of breath.
Symptoms/injuries after skin contact: May cause slight irritation to the skin
Symptoms/injuries after eye contact: Irritation to eyes.
Symptoms/injuries after ingestion: May cause gastrointestinal discomfort

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Disodium tetraborate pentahydrate (12179-04-3)	
EC50 Algae 1	52.4 mg/l (Pseudokirchneriella subcapitata)
LC50 Daphnia 1	91 mg/l (Ceriodaphnia dubia)
LC50 Fish 1	79.7 mg/l (Pimephales promelas)
NOEC Fish 2	6.4 mg/l (Brachydanio rerio)
NOEC Daphnia 2	14.2 mg/l (Daphnia magna)
NOEC Algae 2	17.5 mg/l (Pseudokirchneriella subcapitata)

Calcium sulfate (gypsum) (7778-18-9)	
LC50 fish 1	2980 mg/l (96 h; Lepomis macrochirus)
LC50 fish 2	> 56000 mg/l (96 h; Gambusia affinis)

iron(II)sulfate (7720-78-7)	
LC50 fish 1	925 mg/l (96 h; Poecilia reticulata; Heptahydrate)
EC50 Daphnia 1	7.2 mg/l (48 h; Daphnia magna; Metal ion)
LC50 fish 2	> 100 mg/l (96 h; Oryzias latipes; GLP)
EC50 Daphnia 2	152 mg/l (48 h; Daphnia magna; Heptahydrate)
Threshold limit algae 1	152 mg/l (48 h; Daphnia magna; Heptahydrate)
Threshold limit algae 2	3.2 mg/l (72 h; Pseudokirchneriella subcapitata; Heptahydrate)

12.2. Persistence and degradability

Disodium tetraborate pentahydrate (12179-04-3)	
Persistence and degradability	Not applicable, inorganic

Calcium sulfate (gypsum) (7778-18-9)	
Persistence and degradability	Not applicable

iron(II)sulfate (7720-78-7)	
Persistence and degradability	Biodegradable

Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / May 20, 2024 / Rules and Regulations
Date of issue: 05/13/2020 Revision date: 11/11/24 Supersedes: 08/12/2020 Version: 4.0

12.3. Bioaccumulative potential

Disodium tetraborate pentahydrate (12179-04-3)	
Bioaccumulative potential	Low potential for bioaccumulation
Calcium sulfate (gypsum) (7778-18-9)	
Bioaccumulative potential	No bioaccumulation data available
iron(II)sulfate (7720-78-7)	
BCF fish 1	2 - 20 (28 days; Cyprinus carpio; Heptahydrate).
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

Disodium tetraborate pentahydrate (12179-04-3)	
Ecology – soil	The product is soluble in water and is leachable through normal soil. Adsorption to soils or sediments is insignificant.

12.5 Other adverse effects

No additional information available.

SECTION 13: Disposal Considerations

13.1. Disposal methods

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport Information

Department of Transportation (DOT) Transport by sea: Not applicable
In accordance with DOT: Not applicable

TDG: Not applicable **Air transport:** Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Monoammonium phosphate (7722-76-1)	
Ingredients listed on the United States TSCA (Toxic Substances Control Act) inventory	
Calcium sulfate (gypsum) (7778-18-9)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
iron(II)sulfate (7720-78-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Not listed on SARA Section 313 (Specific toxic chemical listings)	
CERCLA RQ	1000 lb

15.2. International regulations

Canada

Calcium sulfate (gypsum) (7778-18-9)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

Component:	State or Local Regulations
Calcium sulfate (7778-18-9):	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Disodium tetraborate pentahydrate (12179-04-3):	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List
iron(II)sulfate (7720-78-7):	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other Information

According to Federal Register / Vol. 89, No. 98 / May 20, 2024 / Rules and Regulations
Revision date 11/7/2024 Current Date

Full text of H-phrases:

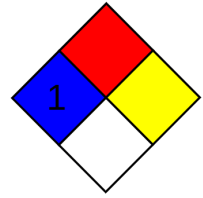
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child

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NFPA health hazard: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard: 0 - Materials that will not burn.
NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

SDS US (GHS
HazCom 2012)



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