

ULTRA GRO LLC
Safety Data Sheet
Ultra Gro Iron 4.5% EDTA



SECTION 1: Identification

- 1.1 GHS Product identifier**
Product name Ultra Gro Iron 4.5% EDTA
Product number 22014
- 1.2 Other means of identification**
Zinc Ethylenediaminetetraacetic acid (EDTA), Diammonium Salt
Diammonium Zinc EDTA
- 1.3 Recommended use of the chemical and restrictions on use**
Agricultural/Horticultural Use- Micronutrient Fertilizer-
- 1.4 Supplier's details**
Name Ultra Gro LLC
Address 1043 S Granada Ave
Madera CA 93637 USA
Telephone (559) 661-0977
Email office@ultragro.com
- 1.5 Emergency phone number** 1-800-424-9300 - CHEMTREC - U.S. Canada, Puerto Rico - 24 Hrs

SECTION 2: Hazard identification

- General hazard statement**
The substance does not meet the criteria for classification.
- 2.1 Classification of the substance or mixture**
GHS classification by OSHA (29 CFR 1910.1200, 2012)
Not a hazardous substance or mixture.
- 2.2 GHS label elements, including precautionary statements**
Not a hazardous substance or mixture.
- 2.3 Other hazards which do not result in classification**
Prevention: Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
Response If on skin: Wash with plenty of water. If skin irritation or rash occurs, Get medical advice/attention.
Wash contaminated clothing before reuse.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures**
Hazardous components
1. Ferrate(1-), [[N,N'-1,2-ethanediy]bis[N-[(carboxy-kappa)methyl]glycinato-kappaN,kappaO]](4-)]-, ammonium (1:1), (OC-6-21)-
Concentration 3 - 7 % (weight)
EC no. 244-302-2
CAS no. 21265-50-9
- 2. Ammonia (1%)**
Concentration 0.1 - 1 % (weight)
EC no. 231-635-3
CAS no. 7664-41-7
Index no. 007-001-00-5
- Flammable gases, Cat. 2
 - Press. Gas
 - Acute toxicity, Cat. 3
 - Skin corrosion/irritation, Cat. 1B
 - Hazardous to the aquatic environment, short-term (acute), Cat. 1
- H221 Flammable gas
H314 Causes severe skin burns and eye damage
H331 Toxic if inhaled
H400 Very toxic to aquatic life

Trade secret statement (OSHA 1910.1200(i))

Designates that a specific chemical identity and/or composition percentage has been withheld as a trade secret.

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SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled, Move to fresh air. Call a physician if symptoms develop or persist.

In case of skin contact, wash it off with soap and water. Get medical attention if irritation develops and persists.

In case of eye contact, rinse it with water. Get medical attention if irritation develops and persists.

If swallowed, Rinse mouth. Get medical attention if symptoms occur.

Personal protective equipment for first-aid responders: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4.2 Most important symptoms/effects, acute and delayed

It may cause an allergic skin reaction. Dermatitis. Rash.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Do not use the water jet as an extinguisher, as this will spread the fire.

5.2 Specific hazards arising from the chemical

During a fire, gases hazardous to health may be formed.

5.3 Special protective actions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from the fire area if you can do so without risk.

Further information

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2 Environmental precautions

Avoid discharge into drains, water courses, or onto the ground.

6.3 Methods and materials for containment and cleaning up

Large Spills: Stop the material flow if this is done without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand, or earth and place into containers. Following product recovery, flush the area with water.

Small Spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean the surface thoroughly to remove residual contamination.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS). Store in a secured area away from children, feed, and other food products. Store in the original container. Store in a well-ventilated area—

storage temperature: 40 F to 100 F.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

PEL [Ammonia] (Inhalation): 50 ppm; US (US/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL [Ammonia] (Inhalation): 35 mg/m³; US (US/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

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PEL [Ammonia] (Inhalation): 25 ppm, (ST) 35 ppm; US (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL [Ammonia] (Inhalation): 25 ppm, (ST) 35 ppm; US (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

8.2 Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits if applicable. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection: Wear appropriate chemical-resistant gloves.
Other: Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Color	Reddish-brown
Odor	Slight Ammoniacal
Odor threshold	Not available
Melting point/freezing point	Not available
The boiling point or initial boiling point and boiling range	of 300 F are estimated
Flammability	Not applicable
Lower and upper explosion limit/flammability limit	Not available
Flashpoint	212 F estimated
Explosive properties	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Oxidizing properties	Not available
pH	6.8 - 8.0
Kinematic viscosity	Not available
Solubility	soluble
Partition coefficient n-octanol/water (log value)	Not available
Vapor pressure	<0.0000001 kPa @ 25 C
Evaporation rate	Not available
Density and/or relative density	1.16, 9.71 #/gallon
Relative vapor density	Not available

Further safety characteristics (supplemental)

Molecular formula:	C10H12FeN2O8.H4N
Molecular weight:	346.1 g/mol
Percent volatile:	35.7 % as water estimated

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is stable and non-reactive under regular use, storage, and transport conditions.

10.2 Chemical stability

Material is stable under normal conditions.
Hazardous decomposition No hazardous decomposition products are known.

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10.3 Possibility of Hazardous Reactions

No dangerous reaction is known under conditions of normal use.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.

10.5 Incompatible materials

Incompatible materials Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition: No dangerous decomposition products are known.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Not known.

Product

4.5% Fe EDTA (CAS # 21265-50-9)

Dermal Acute LD50

Rabbit

16900 mg/kg

Acute Oral LD50

Rat

1.182e+006 mg/kg

Ammonium Hydroxide (CAS 1336-21-6)

Oral Acute LD50

Rat

350 mg/kg

Skin corrosion/irritation

It may cause an allergic skin reaction.

Severe eye damage/irritation

Direct contact with the eyes may cause temporary irritation.

Respiratory or skin sensitization

Not a respiratory sensitizer.

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data is available to indicate that the product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity (STOT) - single exposure

Not classified

Specific target organ toxicity (STOT) - repeated exposure

Not classified

Aspiration hazard

It is not an aspiration hazard

Additional information

Prolonged inhalation may be harmful.

SECTION 12: Ecological information

Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can harm or damage the environment.

Product

4.5% Fe EDTA

Aquatic Acute Fish (Gambusia affinis) LC50 - 1605.9233 mg/l, 96 hours estimated

Ammonium Hydroxide (CAS 1336-21-6)

Aquatic Acute Fish (Gambusia affinis) LC50 - 15 mg/l, 96 hours

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Persistence and degradability

No data is available on the degradability of this substance.

Bioaccumulative potential

No data are available.

Mobility in soil

No data are available.

Other adverse effects

No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Disposal instructions Local disposal regulations Hazardous waste code

Collect, reclaim, or dispose of in sealed containers at licensed waste disposal sites. Dispose of all applicable regulations.

The waste code should be assigned during a discussion between the user, the producer, and the waste disposal company.

Dispose of by local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of safely (see Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after the container is emptied. Empty containers should be triple-rinsed and taken to an approved waste handling site for recycling or disposal.

Packaging disposal

Dispose of by local regulations.

Since emptied containers may retain product residue, follow label warnings even after the container is emptied. Empty containers should be triple-rinsed and taken to an approved waste handling site for recycling or disposal.

Waste treatment

Do not allow products to enter storm drains or waterways.

Sewage disposal

Do not allow products to enter sewage treatment systems.

Other disposal recommendations

Empty containers should be triple rinsed and taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health, and environmental regulations specific to the product in question

US EPA TSCA public inventory

Chemical name: Zincate(2-), [[N,N'-1,2-ethanediybis[N-[(carboxy-kappa)methyl]glycinato-kappaN,kappaO]](4-)]-, sodium (1:2), (OC-6-21)-
CAS number: 14025-21-9

Chemical name: Ferrate(1-), [[N,N'-1,2-ethanediybis[N-[(carboxy-kappaO)methyl]glycinato-kappaN,kappaO]](4-)]-, ammonium (1:1), (OC-6-21)-
CAS number: 21265-50-9

Chemical name: Ammonium hydroxide (10-35% NH3)
CAS number: 1336-21-6

Chemical name: Ammonia (1%)
CAS number: 7664-41-7

Massachusetts Toxic Use Reduction Act (TURA) list

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Chemical name: Ammonium hydroxide
CAS number: 1336-21-6

Chemical name: Ammonia
CAS number: 7664-41-7

New Jersey Right To Know Components

Common name: AMMONIUM HYDROXIDE
CAS number: 1336-21-6

Common name: AMMONIA
CAS number: 7664-41-7

Pennsylvania Right To Know Components

Chemical name: AMMONIUM HYDROXIDE ((NH4)(OH))
CAS number: 1336-21-6

Chemical name: AMMONIA
CAS number: 7664-41-7

Massachusetts Right To Know Components (105 CMR 670)

Chemical name: AMMONIUM HYDROXIDE
CAS number: 1336-21-6

Chemical name: AMMONIA
CAS number: 7664-41-7

15.2 Chemical Safety Assessment

US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ammonium Hydroxide (CAS 1336-21-6) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

SARA 302 Extremely hazardous substance

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Not listed.

SARA 311/312 Hazardous No (Exempt)

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

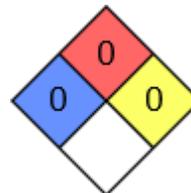
California Proposition 65

WARNING: This product can expose you to chemicals including arsenic, cadmium, and lead, which are known to the State of California to cause cancer and congenital disabilities or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

HMIS Rating

Ultra Gro Iron 4.5% EDTA	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	A

NFPA Rating



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SECTION 16: Other information

16.1 Further information/disclaimer

The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information, and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made concerning the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process unless specified herein. The user assumes all risk and liability for loss, injury, damage, or expense due to any use, handling, storage, or disposal of the Product, and the Manufacturer recommends that the user conducts its tests of the Product to determine the suitability of the Product for the user's particular use.