



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Ferti-lome Chelated Iron EDDHA 6% Water Soluble

SECTION 1: Identification

GHS Product identifier

Product name Ferti-lome Chelated Iron EDDHA 6% Water Soluble
Product number 10637; 10638
Brand Ferti-lome

Other means of identification

6% Iron Chelate EDDHA

Recommended use of the chemical and restrictions on use

Fertilizer

Supplier's details

Name Voluntary Purchasing Groups, Inc.
Address 230 FM 87
Bonham TX 75418
USA

Telephone 855-270-4776

Emergency phone number

In the event of a medical or chemical emergency contact ChemTel, Inc.
North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

SECTION 2: Hazard identification

General hazard statement

Harmful to aquatic life with long lasting effects

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

GHS label elements, including precautionary statements

Hazard statement(s)

H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P273 Avoid release to the environment.
P264 Wash hands thoroughly after handling.
P401 Store away from incompatible materials

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P501

Dispose of contents/container to in accordance with Federal, State and local regulations.

Other hazards which do not result in classification

Avoid release to the environment.

Wash hands thoroughly after handling.

Store away from incompatible materials

Dispose of contents/container to in accordance with Federal, State and local regulations.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Ferrate(1-), [[alpha,alpha'-[1,2-ethanediyldi(imino-kappan)]bis[2-(hydroxy-kappao)benzeneacetato-kappao]](4-)-, sodium (1:1) (CAS no.: 16455-61-1)	90 - <= 100 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

If inhaled

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

In case of skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

In case of eye contact

Rinse with water. Get medical attention if irritation develops and persists.

If swallowed

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

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

Provide general supportive measures and treat symptomatically

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective actions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case

SECTION 6: Accidental release measures

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Personal precautions, protective equipment and emergency procedures

Keep out of low areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. 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.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/ aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

SECTION 7: Handling and storage

Precautions for safe handling

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials.

Specific end use(s)

Residential fertilizer

SECTION 8: Exposure controls/personal protection

Control parameters

1. Ferrate(1-), [[alpha,alpha'-[1,2-ethanediyldi(imino-kappan)]bis[2-(hydroxy-kappao)benzeneacetato-kappao]](4-)]-, sodium (1:1) (CAS: 16455-61-1)

TWA (Inhalation): 5 mg/m3 (US/OSHA)

TWA: 15 mg/m3 (US/OSHA)

TWA (Inhalation): 3 mg/m3 (ACGIH)

TWA (Inhalation): 10 mg/m3 (ACGIH)

Appropriate engineering controls

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

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

Pictograms



Eye/face protection

Wear safety glasses with side shields (or goggles).

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Skin protection

Wear appropriate chemical resistant gloves.

Body protection

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.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Dark Red to black. Dry Flowable powder/granules
Odor	Mild
Odor threshold	Not available.
pH	8-9
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	0.000002 hPa estimated
Vapor density	Not available.
Relative density	500 - 700 kg/m ³ (approximate)
Solubility(ies)	50 g/l @ 20 degrees C
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Additional properties	
Physical state	Solid
Color	Dark red to black

SECTION 10: Stability and reactivity

Reactivity

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

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon oxides and nitrogen oxides (NO_x).

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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

No adverse effects due to inhalation are expected. This product is not expected to cause skin sensitization.

Germ cell mutagenicity

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

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

Toxicity

Ferric EDDHA, Sodium Salt

EC50 Daphnia - 100 mg/l, 48 h estimated

LC50 Fish - 100 mg/l, 96 h estimated

EC10 Green algae - >100 mg/l, 72 h (The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.)

EC50 Green algae - >60.6 mg/l, 72 h (Inhibition of algal growth is due to the complexing properties of the stances and is not ascribed to an intrinsic toxicity)

EC50 Daphnia magna - >100 mg/l, 48 h

LC50 Oncorhynchus mykiss (reported as Salmo gairdneri) - >100 mg/l, 96 h Limit concentration test only (LIMIT test). No mortality was observed. Nominal values (confirmed by concentration control analytics)

NOEC Daphnia magna - 31 mg/l, 21 d The product has not been tested. The statement has been derived from sbstances/products of a similiar structure or composition. Nominal values (confirmed by concentration control analytics)

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

No data available

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Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Endocrine disrupting properties

No data available

Other adverse effects

Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Packaging disposal

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

Waste treatment

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Sewage disposal

Dispose in accordance with all applicable regulations

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

Product name: Ferti-lome Chelated Iron EDDHA 6% Water Soluble

Australian Inventory of Chemical Substances (AICS)

Product name: Ferti-lome Chelated Iron EDDHA 6% Water Soluble

Canadian Non-Domestic Substances List (NDSL)

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Product name: Ferti-lome Chelated Iron EDDHA 6% Water Soluble

European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances (EINECS/ELINCS)

Product name: Ferti-lome Chelated Iron EDDHA 6% Water Soluble

Toxic Substances Control Act (TSCA) Inventory

Product name: Ferti-lome Chelated Iron EDDHA 6% Water Soluble

SECTION 16: Other information

Further information/disclaimer

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