

SECTION I: Identification of the Substance/Mixture and of the Company/Undertaking**1.1 Product Identifier**

Product name: Ferrosol

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

Use: Turf maintenance

1.3 Details of the supplier of the safety data sheetCompany: Aquatrols Europe Ltd
The Panorama, Office G47
Park Street
Ashford
Kent TN23 3DLWebsite: eu.aquatrols.com

Phone number: + 44 (0)1233 633267

Email: jyichye@aquatrols.com**1.4 Emergency telephone**Phone number: CHEMTREC - (800) 424-9300
CHEMTREC INTERNATIONAL- +1-703-527-3887
NETHERLANDS - +31 88 755 85 61
SPAIN - +34 917 689 800
UK - + 44 2890 63 2032**SECTION II: Hazards Identification****2.1 Classification of the substance or mixture**

Product description: Mixture

**Classification according to Regulation (EC) No.
1272/2008**

H315: Skin irritant, Category 2

H320: Eye irritant, Category 2A

2.2 GHS label elements

Labelled according to Regulation (EC) No. 1272/2008



Hazard pictograms:

Signal word:

WARNING

Hazard statements:

H315: Causes skin irritation

H320: Causes eye irritation

Precautionary statements

Prevention:

Do not breathe mists/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Wear protective gloves/eye protection/face protection.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for 20 minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention. Take off contaminated clothing.

Storage:	Store in a well-ventilated place. Keep container tightly closed.
Disposal:	Dispose of container in accordance with local regulations.

2.3 Other hazards which do not result in classification

Not applicable.

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients	Percentage of Weight	CAS No.
Total Nitrogen (N)	15.00	57-13-6
Iron (Fe)	6.00	13463-43-9
Citric Acid	3.00	77-92-9

SECTION IV: FIRST AID MEASURES

If in eyes:	Immediately rinse with water for 5 minutes
If on skin:	Wash skin with soap and water
If swallowed:	Rinse mouth with water and drink a large quantity of water
If inhaled:	Remove product or move person to fresh air

SECTION V: FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): >205F

FLAMMABLE LIMITS (LFL & UFL): Not applicable

EXTINGUISHING MEDIA: Use foam, CO₂, dry chemical, or water

HAZARDOUS COMBUSTION PRODUCTS: Vapors are non-toxic and non-irritant

SPECIAL FIRE FIGHTING PROCEDURES: Remove container from fire area

SECTION VI: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Stop leak, contain spill and absorb with soil or natural absorbents. Sweep up waste and place in container for disposal. Wash down area. Uncontaminated spilled material may be reused.

SECTION VII: HANDLING AND STORAGE

HANDLING: Avoid eye contact and prolonged skin contact. Respiratory protection is normally not required. Sealed containers may develop pressure, open with caution. Wash hands thoroughly after handling the product.

STORAGE: Store in the original labeled container in a cool place away from direct sunlight. Keep separate from food and feed products and out of reach of children and animals. Avoid storage at temperatures of 110F or higher. Corrosive to steel, aluminum, brass. Use with stainless steel or PVC fittings. Product may stain unfinished wood, painted surfaces, or concrete.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONROLS: Not normally required.
RESPIRATORY PROTECTION: Not normally required.
PERSONAL PROTECTIVE EQUIPMENT: Chemical goggles or shielded safety glasses and rubber gloves.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Green liquid with slight sulfur smell
SOLUBILITY: Appreciable
pH: 2.5-3.0
SPECIFIC GRAVITY (Water=1): 1.3
VAPOR PRESSURE: Not established
PERCENT VOLATILE (by volume): Not Applicable
BULK DENSITY: 10.9
BOILING POINT: 250°
EVAPORATION DATE: Not established

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

SECTION X: STABILITY AND REACTIVITY

STABILITY: Stable for at least 2 years under normal conditions.
INCOMPATIBILITY: Strong bases.
HAZARDOUS DECOMPOSITION PRODUCTS: Urea may decompose to release cyanuric acid, ammonia, HCN, NO.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI: TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀(rat): not established

Acute Dermal LD₅₀(rabbit): not established

Eye Irritation (rabbit): not established

Skin irritation (rabbit): not established

Inhalation LC₅₀(rat): not established

Skin Sensitization (guinea pig): not established

Carcinogenic Potential: None listed in OSHA, NTP, IARC, or ACGIH

SECTION XII: ECOLOGICAL INFORMATION

Ecotoxicology: Due to the non-toxic classification of this product no negative impact on wildlife is expected.

Biodegradation: Oxidation and microorganisms.

SECTION XIII: DISPOSAL CONSIDERATIONS

Waste disposal: Contaminated absorbents and surplus product should be buried in accordance with any local legislation.

Container disposal: Wash thoroughly with water and soap prior to reuse.

SECTION XIV: TRANSPORT INFORMATION

In accordance with the provisions of ADR/RID/ADNR/IMDG/ICAO/IATA

14.1 UN Number: Not classified as dangerous

14.2 Shipping name UN Model: Not applicable

14.3 Transport hazard class: Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: No additional information available

14.6 Special precautions for use: No additional information available

14.6.1 Ground transport: No additional information available

14.6.2 Sea transport: No additional information available.

14.6.3 Air transport: No additional information available

14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code: Not applicable.

SECTION XV: REGULATORY INFORMATION**15.1 Safety legislation specific for the substance or mixture****15.1.1 EU-Regulations**

No restrictions according to Annex XVII of REACH. Does not contain REACH candidate substances.

15.1.2 National regulations

No information available

15.2 Chemical safety assessment

No information available

SECTION XVI: OTHER INFORMATION**More information****Abbreviations**

ADR:	European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal Concentration 50%
LD50:	Lethal Dose 50%
EC50:	Effective Dose 50%
CLP:	Classification, Labelling and Packaging
CAS:	Chemical Abstract Service
RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail
IATA-DGR:	International Air Transport Association Dangerous Goods Regulations
GHS:	Globally Harmonized System (GHS) of Labelling Chemical Products
REACH:	Registration, Evaluation, Authorization and Restriction of Chemical Products
IARC:	International Agency for Research on Cancer
Version:	2.0
Previous version:	1.0
Reason for revision:	Updated SDS

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