

MATERIAL SAFETY DATA SHEET

ZOROOFER

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: ZOROOFER
Registration Number in Turkey: 2022TK5762
Relevant Identified Uses: EC FERTILIZER Iron Fertilizer Solution (Containing Iron Sulphate)
Manufacturer: NOVICHEM KİMYA ZİRAAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ
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2. HAZARDS IDENTIFICATION

Hazard Pictograms:  GHS07

Signal Word: Caution

Classification in accordance to the directives 67/548/EEC and 1999/45/EC, and regulation (EC) no 1907/2006

Classification according to Regulation (EC) No 1272/2008

Hazard Statements:

Long-Term (chronic) aquatic hazard (Category 3) H412 Acute toxicity (dermal), Hazard Category 4

Acute toxicity (oral), Hazard Category 4

Skin corrosion/irritation, Hazard Category 2

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H412 :Harmful to aquatic life with long lasting effects.

Environmental hazards:

Hazardous to the aquatic environment – Chronic Hazard, Category 4

H413: May cause long lasting harmful effects to aquatic life.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P236: Keep only in original container.

P235 + P410: Keep cool. Protect from sunlight.

P236: Keep cool.

P250: Do not subject to grinding, shock and friction.

P262: Do not get in eyes, on skin, or on clothing.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P501: Dispose of contents/ container to an approved waste disposal plant.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P314 + P330: IF SWALLOWED: Get medical advice/attention if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.

P304 + P330 IF INHALED: Rinse mouth.

P305+P351+P338+P337+P313: IF IN EYES: 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.

P370 + P380: In case of fire: Evacuate area.

P402 + P404: Store in a dry place. Store in a closed container.

P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

Other Hazards: Avoid storing more than 5 packages one on the top of the other. Keep away from food, children and animals.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS	EINECS	Content (w/w) %
Iron (II) Sulfate ($\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$)	7720-78-7		30
Water Soluable Iron (II)	7439-89-6		6

4. FIRST AID MEASURES

Inhalation: Rinse mouth with water. Get medical attention if you do not feel well.

Skin Contact: Wash with water and soap. If irritation occurs, get medical attention.

Eye Contact: Contact can cause redness. 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.

Ingestion: Rinse mouth with water. Get medical attention if you do not feel well.

Special Treatment: Non-applicable.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Suitable Extinguishing Media: Standard means can be used as foam, water spray or fog. Sand or earth may be used for small fires only.

Advice for Fire Fighters: Respiratory and eye protection are required for firefighting personnel. Full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see section 2.

Environmental precautions: Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area.

Methods and material for containment and cleaning up: No special method or material.

Reference to other sections: See section 1 for emergency contact

See section 8 for personal protective equipment.

See section 13 for disposal information.

7. HANDLING AND STORAGE

Protective measures: As with all chemicals, avoid contact with skin, eyes and clothing. Do not eat, drink, smoke, or apply cosmetics while handling this product. Wear protective gloves/protective clothing/eye protection/face protection when applying. Wash thoroughly after application. Avoid breathing dusts generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

Measures to prevent fire: Nonflammable.

Advice on storage: All employees who handle this material should be trained to handle it safely. Avoid contact with eyes, skin, and clothing. Store in cool ($0/+45^\circ\text{C}$), dry, ventilated area with acid resistant floors and good drainage. Protect from

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physical damage. Avoid storing more than 5 packages one on the top of the other. Keep out of direct sunlight and away from heat, water, and incompatible materials. Do not wash out container and use it for other purposes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eyes and Face Protection: During application usage of mono-goggles and chemical splash goggles are recommended.
Skin Protection: Use protective equipment such as chemically resistant gloves and overalls when handling this product.
Thermal Hazards: Do not mix the product to drinking water.
Environmental Exposure Controls: Keep it away from aquatic environment and animals.
Respiratory protection
Not required; except in case of aerosol formation.
Control of environmental exposure
Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Form: liquid Color: DARK BROWN
Odor: Odorless
pH: ca. 4,2 at 20 °C
Melting Point / Freezing Point: Non applicable.
Flash Point: Nonflammable.
Evaporation Rate: Non applicable.
Flammability (solid, gas): Nonflammable.
Upper/lower flammability or explosive limits: Nonflammable and Non-explosive.
Vapor pressure: Non applicable.
Vapor density: Non applicable.
Relative density: -
Solubility: 100% water-soluble.
Partition coefficient: n-octanol/water: Not specified.
Auto-ignition temperature: Nonflammable.
Decomposition temperature: Above 135 °C
Viscosity: Liquid.
Explosive properties: Non-explosive.
Oxidizing properties: Non-oxidizing.

10. STABILITY AND REACTIVITY

Reactivity: Nonreactive.
Chemical stability: Highly stable.
Possibility of hazardous reactions: Non-applicable.
Conditions to avoid: Follow the directions in Section 2 and 7.
Incompatible Materials: Strong acids and alkaline.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: The acute toxicity of the substances would have to be considered of very low concern.
Skin corrosion/irritation: Noncorrosive but may cause slight irritation.
Serious eye damage/irritation: Noncorrosive but may cause redness.
Respiratory or skin sensitization: Not sensitizing.
Germ cell mutagenicity: Not applicable.
Carcinogenicity: Not applicable.
Reproductive toxicity: Not applicable.
Aspiration hazard: Nonhazardous.

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Effective Dose: Not specified.
Exposure time: Not specified.
Results: The same effects with inorganic salts are observed.

12. ECOLOGICAL INFORMATION

This product may be harmful to aquatic life. Keep away from drinking water and animals; follow the instruction on the label.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Waste disposal must be in accordance with appropriate U.S. Federal, State regulations and those of EU Member States. Waste should not be disposed of by release to sewers.

Product / Packaging disposal: Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal.

Waste codes / waste designations according to LoW: 06 10 99.

Other disposal recommendations: Empty containers may contain residue. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

14. TRANSPORT INFORMATION

UN Number: Not classified as dangerous

Proper Shipping Name: Not applicable

Transport hazard class: Not applicable

Packing group: Not applicable

Special precautions for user: Follow the instructions in Section 2 and 7.

15. REGULATORY INFORMATION

In accordance with EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use EU Regulation (EC) No. 1907/2006 (REACH) EU Regulation (EC) No 1272/2008 (CLP) and REACH article 14, a Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

Reason for Issue: Safety Data Sheet

Approved By: General Manager

Prepared By: Import & Export Department.

Information Contact: (+90) 5352443953

Data Sources: Prepared according to the European Union Regulations stated in section 15.

Manufacturer Disclaimer: The information contained herein is accurate to the best knowledge of NOVICHEM KİMYA. However, neither the above-named manufacturer nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.