

Material Safety Data Sheet (MSDS)

Royalfex

Section 1 - Chemical Product and Company Identification

Product Name: Royalfex

Chemical Formula: C₁₈H₁₆O₆N₂NaFe

Synonyms: Ethylenediamine-N',N'-bis(2hydroxyphenylacetic acid), Ferric sodium complex

CAS#: 84539-55-9

Company Identification

HMio Technology Co, Ltd.

2F, Tower 1, No.33 Jitai Rd., High-Tech District, Chengdu, Sichuan, China.

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For information & emergencies, call: 86-28-6232 0807

Section 2 - Composition, Information on Ingredients

CAS#	Name	Percent
84539-55-9	EDDHA FE	90%
	Water and other matters	10%

Eyes: Possible irritation according to the contact time with the product.
In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water for at least 10 minutes. Get medical aid if irritation occurs.

Skin: Possible irritation according to the contact time with the product.
Take off all contaminated clothing. Immediately wash skin with soap and plenty of water. Wash clothing before reuse. Get medical attention if irritation develops.

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Inhalation: Possible irritation of respiratory tract.
Remove from exposure to fresh air immediately.

Section 3 - Hazards Identification

No specific hazards are encountered under normal product use.

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Section 4 - First Aid Measures

Ingestion: Possible irritation of mouth and digestive tract.
If swallowed, wash out mouth with water provided person is conscious.
Never give anything by mouth to an unconscious person. Get medical aid.
Do NOT induce vomiting if the person is unconscious.

Advice: Who provides the first medical aid must use the individual protection equipment (latex gloves, safety glasses and anti-powder mask with P2 filters).

Section 5 - Fire Fighting Measures

Extinguisher Media: water, foam, carbon dioxide (CO₂).

Special Fire Fighting Procedures:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area. Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Unusual Fire and Explosion Hazards:

In case of fire, do not breathe fumes. Nitrogen, sulfur and carbon oxides may develop.

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Section 6 - Accidental Release Measures

Personal precautions:

For non-emergency personnel:

Keep away from the affected area people not involved in the emergency intervention.

Alert the responsible of the internal emergency.

For emergency responders:

Wear protective clothes giving a total skin protection, latex gloves and safety glasses.

Environmental precautions:

If possible, store into a clean container either to reuse or disposal. Avoid waterway and discharging contamination, competent authority must be informed in case of waterway accidental contamination.

Methods and material for contamination and cleaning up:

If possible, store into a clean container either to reuse or disposal. If possible absorb with the inert material. After store, wash the area with water and suitable materials.

Section 7 - Handling and Storage

Handling: Avoid powder inhalation. Avoid direct contact with skin and eyes. Remove all protective clothing before access to the areas where you eat. Always respect hygienic rules, do not drink neither eat in the working area.

Storage: Keep container well closed and store in a dry, well-ventilated place away from sunlight. The product is hygroscopic and photosensitive. Avoid extremes of temperatures.

Section 8 - Exposure Controls, Personal Protection

Appropriate engineering controls: Operate in well-ventilated place.

Eyes/face: Wear safety glasses according to the standard EN 166.

Skin: Wear latex gloves according to the standard EN 374. Wear total skin protection clothes.

Respirators: Use anti-powder mask with P2 filters in case of dust making. The powder exposition limit must be respected.

Exposure control: Keep the product concentration under the exposure limits established by the law.

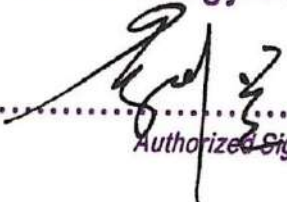
Section 9 - Physical and Chemical Properties

Physical State: microgranule

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Appearance:	dark red-brown
Odor:	Virtually odourless
pH:	7-9
Vapor Pressure:	N/A
Vapor Density:	N/A
Evaporation Rate:	N/A
Freezing Point:	N/A
Melting Point:	breaks down without melting
Solubility:	300g/l (20 Deg. C).
Specific Gravity/Density:	N/A
Molecular Formula:	$C_{18}H_{16}O_6N_2NaFe$
Molecular Weight:	435.2

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Section 10 - Stability and Reactivity

Stable under recommended storage and handling conditions.

Chemical Stability: Stable

Conditions to Avoid: Heating of the product at high temperatures
Reacts with strong oxidizing agents.

Hazardous Decomposition Products:

Toxic fumes of nitrogen, sulfur and carbon oxide at temperatures above the decomposition temperature.

Conditions to avoid: Heating of the product at high temperatures.

Section 11 - Toxicological Information

Toxicological effects caused by exposure to the substance: see sections 3 and 4.

Information on toxicological effects:

Acute toxicity:	LD50oral rat:>2000mg/kg
Skin irritation:	N/A
Serious eye damage/irritation:	N/A
Respiratory or skin sensitization:	N/A
Germ cell mutagenicity:	N/A
Carcinogenicity:	N/A
Reproductive toxicity:	N/A

Information on likely routes of exposure:

Inhalation:	Can be irritant for nose and respiratory system
Skin:	Can be irritant for skin
Eye:	Can be irritant for eyes
Ingestion:	Can be irritant for mouth and digestive tract

Symptoms related to the physical, chemical and toxicological characteristics: N/A

Section 12 - Ecological Information

No experimental ecological data are available for product.

Section 13 - Disposal Considerations

Waste Disposal Method: Dispose in accordance with local, state and federal regulations.

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Section 14 - Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name: No data available.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15 - Regulatory Information

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Product Name: Ethylenediamine-N',N'-bis(2hydroxyphenylacetic acid), Ferric sodium complex

Section 16 - Additional Information

MSDS Creation Date: 01/AUG/2018

Revision #2 Date: 26/AUG/2019

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