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Version Number: 1.1

1. Identification

Product Identifiers

Product Name: Bright Dyes® Gold E-N (F.A.O.) Powder

Product Number: E-505430

Recommended Use & Restrictions on Use

Aluminum dye

Manufacturer/Supplier

Kingscote Chemicals, Inc.
3334 South Tech Blvd.
Miamisburg, OH 45342
U.S.A.

Emergency Telephone Number

Company Telephone Number: (937) 886-9100

Emergency Telephone (24 hr): INFOTRAC (800) 535-5053 (North America)
+1-352-323-3500 (International)

2. Hazards Identification

Classification

Category 4	Acute toxicity - Oral
Category 4	Acute toxicity – Dermal (Dusts/Mists)

Signal Word

Warning

Hazard Statements

Very harmful if swallowed, inhaled or in contact with skin.



Precautionary Statements

Wash face, hands, and any exposed skin thoroughly after handling.

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

Wear protective gloves/protective clothing.

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

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

Wash contaminated clothing before reuse.

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

Hazard Not Otherwise Classified (HNOC)

None

3. Composition/Information on Ingredients

Chemical Name	CAS #	Weight %
Ferric ammonium oxalate	13268-42-3	>90

**If Chemical Name/CAS # is "proprietary" and/or Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.*

4. First-Aid Measures

First-Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	Wash with non-abrasive soap and water. Get medical advice/attention if irritation occurs.
Inhalation	Remove to fresh air. If breathing is difficult, administer oxygen; seek medical attention immediately.
Ingestion	Rinse mouth. DO NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention if large quantities were ingested or if nausea occurs.

Most Important Symptoms and Effects

Symptoms	May cause eye and skin irritation. Inhalation may cause respiratory irritation. Ingestion may cause urine to be a gold/yellow color until the dye has been washed through the system.
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Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician	Treat symptomatically.
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5. Fire-Fighting Measures

Suitable Extinguishing Media

Use water spray, fog or foam.

Unsuitable Extinguishing Media

Not Use water jet.

Specific Hazards Arising from the Chemical

Burning may produce oxides of carbon, nitrogen (NOx), and iron.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

- Personal Precautions** Use personal protective equipment as recommended in Section 8.
- Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12 and Section 13.

Methods and Material for Containment and Cleaning Up

- Methods for Containment** Prevent further leakage or spillage if safe to do so.
- Methods for Cleaning Up** Collect into suitable, properly labeled container for recovery or disposal.

7. Handling and Storage

Precautions for Safe Handling

- Advice on Safe Handling** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for Safe Storage, Including Incompatibilities

- Storage Conditions** Keep container tightly closed and store in a cool, dry, and well-ventilated area. Keep/store only in original container. Do not reuse container.
- Incompatible Materials** Strong acids.

8. Exposure Controls / Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ferric ammonium oxalate 13268-42-3	TWA: 1.0 mg/m ³	TWA: 1.0 mg/m ³	TWA: 1.0 mg/m ³

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual Protection Measures, Such as Personal Protective Equipment:

- Eye/Face Protection** Use safety glasses or chemical splash goggles.
- Skin & Body Protection** Rubber gloves. Suitable protective clothing.
- Respiratory Protection** Wear an appropriate NIOSH/MSHA approved respirator.
- Hygiene Measures** Handle in accordance with good industrial hygiene and safety practices.

9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Solid	Odor	None apparent
Appearance	Green crystalline	Odor Threshold	Not determined
Color	Green		

<u>Property</u>	<u>Values</u>
pH	4.5 – 5.5 (1% solution)
Molecular Weight	428.07
Melting/Freezing Point	Not applicable
Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not determined
Upper Flammability Limits	Not applicable
Lower Flammability Limits	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	Not applicable
Specific Gravity	Not applicable
Solubility	Soluble in water
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Not determined

10. Stability and Reactivity

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep separated from incompatible substances. Keep out of reach of children.

Incompatible Materials

Strong acids.

Hazardous Decomposition Products

Oxides of carbon, nitrogen (NO_x), and iron.

11: Toxicological Information

Information on Likely Routes of Exposure

Inhalation	Avoid inhalation of dust.
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Ingestion	Do not ingest.
Skin Contact	Avoid contact with skin.
Eye Contact	Avoid contact with eyes.

Delayed, Immediate, and Chronic Effects from Short- and Long-Term Exposure

May cause an allergic skin reaction.

Hazardous in case of ingestion.

Numerical Measures of Toxicity

Not determined

Symptoms Associated with Exposure

See Section 4 of this SDS for symptoms.

Carcinogenicity

NTP	None
IARC	None
OSHA	None

12. Ecological Information**Ecotoxicity**

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Not available

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

Other Adverse Effects

Not determined

13. Disposal Considerations**Waste Disposal Methods**

Dispose of in accordance with federal, state, and local regulations.

Contaminated Packaging

Do not re-use empty containers. Dispose of containers in accordance with federal, state, and local regulations.

14. Transport Information

Note

See current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

DOT	Not regulated
IATA	Data not available
IMDG	Data not available

15: Regulatory Information

International Inventories

Toxic Substances Control Act Listed

U.S. Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CERCLA This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CWA (Clean Water Act) This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

WHIMIS (Canada) CLASS D-2A: Material causing other toxic effects.

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ferric ammonium oxalate 13268-42-3	X	X	X

16: Other Information**HMIS**

Health Hazards	Flammability	Instability	Special Hazards
2	1	0	E

NFPA

Health Hazards	Flammability	Physical Hazards	Personal Protection
2	1	0	E

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Revision Note	Content Review

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet