SAFETY DATA SHEET

1. Product and Company Identification

Product Name: MAGNALITE FY-6600 — Fluorescent Magnetic Powder—

Company Name: Denshijiki Industry Co., Ltd.

Address: 5-6-20 Ukima, Kita-Ku, Tokyo
Section in Charge: Development department

Telephone: +81-3-5970-8681 FAX: +81-3-5970-8680

Emergency Telephone: Same as the section in charge

Date of Creation: January 24, 2018 Date of Revision: January 21, 2021

Reference Number: SDS15143-03e

Product Code: 15143

Recommended Uses and Restrictions on Use: Magnetic particle testing

2. Hazards Identification

GHS Classification

Environmental Hazards

Physical Hazards Flammable solid Not classified

Autoreactive chemical Classification not possible
Oxidizing solid Classification not possible
Organic peroxide Classification not possible
Corrosive to metals Classification not possible
Acute toxicity (oral) Classification not possible

Health Hazards Acute toxicity (oral) Classification not possible

Acute toxicity (dermal) Classification not possible

Acute toxicity (inhalation: dust)

Classification not possible

Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1Respiratory sensitizationCategory 1Skin sensitizationCategory 1

Germ cell mutagenicity

Classification not possible

Carcinogenicity

Classification not possible

irritation)

Specific target organ toxicity (repeated Category 1 (respiratory system)

exposure)

Aspiration hazard Classification not possible

Hazardous to the aquatic environment (acute) Classification not possible

Hazardous to the aquatic environment (chronic) Classification not possible

Hazardous to the ozone layer Classification not possible

GHS Label Elements







Pictograms:

Signal Word: Danger

Hazard Statement: Causes skin irritation

Causes serious eye damage

May cause allergy, asthma, or dyspnea when inhaled

May cause an allergic skin reaction May cause respiratory irritation

Causes damage to organs through prolonged or repeated exposure (respiratory system)

Precautionary Statement:

Prevention Do not breathe dust.

Wash hands thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Do not take contaminated work clothes out of the workplace.

Wear protective gloves/eye protection.

In case of insufficient ventilation, wear respiratory protection.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If skin irritation or exanthema develops, get medical advice/attention.

If symptoms related to breathing develop, call a POISON CENTER/doctor.

Call a POISON CENTER/doctor, if you feel unwell.

Get medical advice/attention, if you feel unwell.

Take off contaminated clothing and wash when reusing.

Storage Store locked up.

Disposal Dispose of contents/container at an approved waste disposal plant in accordance with

local/regional/national regulations.

3. Composition/Information on Ingredients

Substance/Mixture: Mixture

Chemical Name or Common Name	Content (%)	CAS No.
Iron oxide	40–60	1317-61-9
Sodium bicarbonate	15–30	144-55-8
Fluorescent pigment	10–20	Trade secret
Iron	5–15	7439-89-6
Melamine resin	5–15	9003-08-1
Polyoxyethylene Decyl Ether	0–3	26183-52-8

4. First Aid Measures

IF INHALED : Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor, if you feel unwell.

IF ON SKIN : Wash with plenty of water and soap. If skin irritation or exanthema develops,

get medical advice/attention.

IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Rinse for at least 15 minutes, and then

get medical attention.

IF SWALLOWED : If the inside of the mouth is contaminated, wash thoroughly with water.

Do not induce vomiting.

5. Firefighting Measures

Extinguishing Media : Powder extinguisher, foam extinguisher, etc.

Inappropriate Extinguishing

Media

Straight stream of water.

Specific Hazards : When fighting fire, avoid inhalation of fumes as the combustion gases include

carbon monoxide and other toxic gases.

Special Firefighting

Procedures

Perform fire-fighting from the windward side, and wear respiratory protection if

needed. Remove containers from the fire area, if it can be done safely. To prevent the fire from spreading, remove nearby flammable materials if safe to

do so.

Protection of Firefighters : Wear respiratory protection.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and

Emergency Procedures

When dealing with the released material, wear appropriate protective equipment

(refer to Section 8. Exposure Controls/Personal Protection) to avoid contact with eyes and skin or inhalation of dusts.

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Environmental Precautions : Be careful not to discharge into rivers or anywhere else that would affect the

environment.

Method and Materials for

Containment and Cleaning

Up

Sweep up the scattered material and put it in a sealable container.

7. Handling and Storage

Handling

Technical Measures : Take engineering measures and use protective equipment as described in

Section 8. Exposure Controls/Personal Protection.

Provide local and general ventilation as described in Section 8. Exposure

Controls/Personal Protection.

Precautions for Safe

Handling

: Do not get in eyes.

Do not inhale or ingest dust. Do not touch or swallow.

Wash hands thoroughly after handling.

Storage

Proper Storage Conditions Store in a cool, well-ventilated place, away from direct sunlight. Keep

containers sealed.

Avoid moisture. Store at 40°C or below.

Store locked up if necessary.

Safe Packaging Materials Conform to product specification container.

Exposure Controls/Personal Protection

Control Levels $3.0 \text{ mg/m}^3 \text{ (dust)}$

Permissible Exposure Levels

Japan Society for Occupational Health (2016 version)

Dust inhaled as iron oxide 1 mg/m³, Total dust 4 mg/m³

In an indoor, inadequately ventilated workplace, provide local or general **Engineering Measures**

ventilation equipment. Install an eyewash instrument.

Protective Equipment Wear the following protective equipment as needed:

Respiratory System

Protection

Dust mask, etc.

Hand Protection Appropriate protective gloves (PE or rubber gloves, etc.)

Eye Protection Appropriate protective glasses (goggles)

Skin and Body Appropriate protective clothing (protective clothing or long-sleeved work

Protection clothes)

Physical and Chemical Properties 9.

Physical state Powder Color Green Odor Slight odor

No data available Melting point/ freezing point Boiling point or initial No data available

boiling point and boiling

range

Flammability No data available Lower and upper explosion No data available

limit / flammability limit

Flash point No data available

No data available Auto-ignition temperature Decomposition temperature No data available No data available pН Kinematic viscosity No data available

Slightly soluble in water Solubility

Partition coefficient

n-octanol/water (log value)

No data available

Vapor pressure No data available Density and/or relative No data available

density

MAGNALITE FY-6600 Denshijiki Industry Co., Ltd. SDS15143-03e

Relative vapor density : No data available Particle characteristics : 10μm (5-16μm)

10. Stability and Reactivity

Chemical Reactivity and

Stability

: Stable when stored at room temperature in a dark place.

It solidifies slightly when absorbing moisture.

Possibility of Hazardous

Reactions

: No data available.

Conditions to Avoid : Heat, humidity.

Incompatible Materials : No data available.

Hazardous Decomposition

Products

Toxic gases such as carbon monoxide may be generated by combustion, etc.

11. Toxicological Information

Acute Toxicity (oral) : $LD_{50} = 4,220 \text{ mg/kg (rat)}$: sodium bicarbonate Acute Toxicity (dermal) : $LD_{50} = 2,000 \text{ mg/kg (rat)}$: sodium bicarbonate Acute Toxicity (inhalation) : $LC_{50} = 5.33 \text{ mg/L/4h (rat)}$: sodium bicarbonate

Skin Corrosion and

Skin Irritation : It corresponds to Category 2 because the component of Category 2 (iron oxide)

is 10% or more.

Serious Eye Damage or

Eye Irritation

It corresponds to Category 1 because the component of Category 1 (iron oxide,

polyoxyethylene decyl ether) is 3% or more.

Respiratory Sensitization or

Skin Sensitization

: Respiratory sensitization: It corresponds to Category 1 because the component

of Category 1 (melamine resin) is 1% or more.

Skin sensitization: It corresponds to Category 1 because the component of

Category 1 (melamine resin) is 1% or more.

Germ Cell Mutagenicity : No data available
Carcinogenicity : No data available
Reproductive Toxicity : No data available

Specific Target Organ

Toxicity, Single Exposure

It corresponds to Category 3 (respiratory tract irritation) because the component

of Category 3 (iron oxide) is 20% or more.

Specific Target Organ

Toxicity, Repeated Exposure : It corresponds to Category 1 (respiratory system) because the component of

Category 1 (iron oxide) is 10% or more.

Aspiration Hazard : No data available

12. Ecological Information

Ecotoxicity : $LC_{50} = 7,700 \text{ mg/L/96h}$ (rainbow trout): sodium bicarbonate

Persistency/Degradability : No data available
Bioaccumulative Potential : No data available
Mobility in Soil : No data available
Hazardous to the Ozone : No data available

Layer

13. Disposal Considerations

- Have contents/container disposed of by an industrial waste disposal contractor licensed by the prefectural governor.
- No dumping is allowed.
- If this product is disposed of by landfill, incinerate it by using an incineration system in advance and check that the burned residue does not exceed the criteria defined in the Order for Enforcement of the Waste Management and Public Cleansing Act.
- If this product is burned, burn it in a safe place using a method that does not cause harm or damage due to burning or explosion and have someone stand guard.

14. Transport information

UN No. : Not restricted UN No. : Not restricted

Not regulated for transport of dangerous goods (IATA. IMDG)

Follow other related laws and regulations.

15. Regulatory Information

Comply with the applicable laws and regulations regarding this product in each country/region.

16. Regulatory Information

This Safety Data Sheet was prepared in accordance with JIS Z 7253:2019 to provide users of this product with reference information to ensure safe handling. Users are responsible for taking appropriate measures for individual handling conditions with reference to this SDS.

This SDS does not represent any guarantee of safety.

Major references

Safety Data Sheets (SDS) provided by raw material manufacturers

Japanese Standards Association (JIS) JIS Z 7253:2019 "Hazard communication of chemicals based on GHS"

NITE Chemical Risk Information Platform (CHRIP)