SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product Name:	MAGNALITE FY-660	0 – Fluorescer	nt Magnetic Powder –
Company Name:	Denshijiki Industry Co., Lt	d.	
Address:	5-6-20 Ukima, Kita-Ku, To	kyo	
Section in Charge:	Development department		
Telephone:	+81-3-5970-8681	Fax:	+81-3-5970-8680
Emergency Telephone:	Same as the section in char	ge	
Issue Date:	January 24, 2018	Revision Date:	April 1, 2023
Reference Number:	SDS15143-23		
Product Code:	15143		
Recommended Uses and	d Restrictions on Use: Magr	netic particle testi	ng

2. Hazards Identification

GHS Classification		
Physical Hazards	Self-reactive Substances and Mixtures	Classification not possible
	Oxidizing Solids	Classification not possible
	Organic Peroxides	Classification not possible
	Corrosive to Metals	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/Irritation	Classification not possible
	Serious Eye Damage/Eye Irritation	Category 2
	Respiratory Sensitization	Category 1
	Skin Sensitization	Category 1
	Germ Cell Mutagenicity	Classification not possible
	Carcinogenicity	Classification not possible
	Reproductive Toxicity	Classification not possible
	Reproductive Toxicity/Effects on or via Lactation	Classification not possible
	Specific Target Organ Toxicity (Single Exposure)	Category 1 (Respiratory)
	Specific Target Organ Toxicity (Repeated Exposure)	Category 1 (Respiratory)
	Aspiration Hazard	Classification not possible
Environmental Hazards	Hazardous to the Aquatic Environment— Short-term (Acute)	Classification not possible
	Hazardous to the Aquatic Environment— Long-term (Chronic)	Classification not possible
	Hazardous to the Ozone Layer	Classification not possible

GHS Label Elements



Pictogram:	\mathbf{v}					
Signal Word:	Danger					
Hazard Statements:	May cause an allergic skin reaction					
	Causes serious eye irritation					
	May cause allergy or asthma symptoms or breathing difficulties if inhaled					
	Causes damage to the respiratory system					
	Causes damage to the respiratory system through prolonged or repeated exposure					
Precautionary Stateme	ents:					
Prevention	Do not breathe dust.					
	Wear protective gloves/eye protection.					
	In case of inadequate ventilation, wear respiratory protection.					
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing.					
	If exposed or concerned, call a doctor.					
	If experiencing respiratory symptoms, call a doctor.					
	Take off contaminated clothing. And wash it before reuse.					
Storage	Store locked up.					
Disposal	Have the contents/container disposed of by a waste disposal contractor licensed by					
	the national government or the prefectural governor.					

3. Composition/Information on Ingredients Classification of Substance or Mixture: Mixture

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			Reference Number in
Chamies 1 Name an			Gazetted List
	Content (%)	CAS No.	(Chemical Substances
Common Name			Control Act/Industrial
			Safety and Health Act)
Iron oxide	50	1317-61-9	1-357
Sodium bicarbonate	20	144-55-8	1-164
Fluorescent pigment	7.1	Trade secret	Trade secret
Iron	7.1	7439-89-6	
Melamine resin	14	9003-08-1	7-559
Polyoxyethylene decyl	1.0	26182 52 8	7.07
ether	1.7	20103-32-0	/-9/

4.	First-aid Measures IF INHALED	:	Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
	IF ON SKIN	:	Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.
	IF IN EYES	:	Rinse cautiously with clean water for several minutes. Remove contact

M	AGNALITE FY-6600		Denshijiki Industry Co., Ltd.	Reference Number: SDS15143-23
	IF SWALLOWED	:	lenses, if present and easy to do. Cor minutes, and then get medical attenti If the inside of the mouth is contamin Do NOT induce vomiting.	ntinue rinsing. Rinse for at least 15 ion. nated, wash thoroughly with water.
5.	Fire-fighting Measures			
	Extinguishing Media	:	Powder, foam, etc.	
	Inappropriate Extinguishing Media	:	Straight stream of water	
	Specific Hazards	:	When fighting fire, avoid breathing fication monoxide and other toxic gas	fumes as the combustion gases include ses.
	Specific Extinguishing Methods	:	Perform fire-fighting from the windy protection if needed. Remove contain To prevent the fire from spreading, re- safe to do so.	ward side, and wear respiratory ners from the fire area if safe to do so. emove nearby flammable materials if
	Protection of Fire-fighters	:	Wear respiratory protection.	
6.	Accidental Release Measures			
	Personal Precautions, Protoctive Equipment and		When dealing with the released mete	rial waar appropriate protective
	Emergency Procedures	•	equipment (refer to Section 8. Expos avoid contact with eyes and skin or i	sure Controls/Personal Protection) to nhalation of dust.
	Environmental Precautions	:	Be careful not to discharge into river affect the environment.	rs or other bodies of water so as not to
	Methods 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 p Section 8. Exposure Controls/Person Provide local and general ventilation Controls/Personal Protection.	protective equipment as described in al Protection. as described in Section 8. Exposure
	Precautions for Safe	:	Do not get in eyes.	
	Handling		Do not breathe dust. Do not touch or swallow. Wash hands thoroughly after handlin	ισ
	Storage		wash hands thoroughly arter handling	-9-
	Storage Conditions	:	Store in a cool, well-ventilated place containers tightly closed.	, away from direct sunlight. Keep
			Protect from moisture. Store at temperatures not exceeding Store locked up if necessary.	40°C.
	Packaging Materials	:	Keep in containers specified in the p	roduct specifications.
8.	Exposure Controls/Personal P	rote	ction	
	Control Levels	:	3.0 mg/m ³ (dust)	
	Permissible Exposure Levels	;		

MAGNALITE FY-6600		Denshijiki Industry Co., Ltd.	Reference Number: SDS15143-23
Occupational He (2016 ed.)	alth		
Engineering Measur	res :	In an indoor, inadequately ventilate ventilation equipment. Provide an e	d workplace, provide local or general eyewash station.
Protective Equipment	nt	Wear the following protective equip	pment as needed:
Respiratory Prote	ection :	Dust mask, etc.	
Hand Protection	:	Appropriate protective gloves (mad	le of PE, rubber, etc.)
Eye Protection	:	Appropriate protective glasses (gog	ggles)
Skin and Body Protection	:	Appropriate protective clothing (pro clothes)	otective clothing or long-sleeved work

9. Physical and Chemical Properties

	Physical State	:	Powder
	Color	:	Green
	Odor	:	Slight odor
	Melting Point/Freezing Point	:	No data available
	Boiling Point or Initial Boiling Point and Boiling Range	:	No data available
	Flammability	:	Non-combustible
	Upper/Lower Flammability or Explosive Limits	:	No data available
	Flash Point	:	No data available
	Auto-ignition Temperature	:	No data available
	Decomposition Temperature	:	No data available
	pН	:	No data available
	Kinematic Viscosity	:	No data available
	Solubility	:	Slightly soluble in water.
	n-Octanol/Water Partition Coefficient (Log Value)	:	No data available
	Vapor Pressure	:	No data available
	Density or Relative Density	:	No data available
	Relative Gas Density	:	No data available
	Particle Characteristics	:	10 μm (5–16 μm)
10.	Stability and Reactivity		
	Chemical Reactivity and Stability	:	Stable when stored at room temperature in a dark place. It solidifies slightly when it absorbs moisture.
	Possibility of Hazardous Reactions	:	No data available
	Conditions to Avoid	:	Heat and moisture

Incompatible Materials : No data available

Products

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

1. Toxicological Information		
Acute Toxicity (Oral)	:	$LD_{50} = 4,220 \text{ mg/kg}$ (rat): Sodium bicarbonate
Acute Toxicity (Dermal)	:	LD ₅₀ = 2,000 mg/kg (rat): Sodium bicarbonate
Acute Toxicity (Inhalation)	:	$LC_{50} = 5.33 \text{ mg/L/4h}$ (rat): Sodium bicarbonate
Skin Corrosion/Irritation	:	No data available
Serious Eye Damage/Eye Irritation	:	Classified as Category 2 because the total content of the ingredient classified as Category 1 (polyoxyethylene decyl ether) multiplied by 10 is 19.0%, which is higher than the concentration limit (10%).
Respiratory or Skin Sensitization	:	Respiratory Sensitization: Classified as Category 1 because the content of the ingredient categorized as Category 1 (melamine resin) is higher than 1%. Skin Sensitization: Classified as Category 1 because the content of the ingredient classified as Category 1 (melamine resin) is higher than 1%.
Germ Cell Mutagenicity	:	No data available
Carcinogenicity	:	No data available
Reproductive Toxicity	:	No data available
Specific Target Organ Toxicity (Single Exposure)	:	Classified as Category 1 (respiratory system) because the content of the ingredient classified as Category 1 (iron oxide) is higher than 10%.
Specific Target Organ Toxicity (Repeated Exposure)	:	Classified as Category 1 (respiratory system) because the content of the ingredient classified as Category 1 (iron oxide) is higher than 10%.
Aspiration Hazard	:	No data available

12.	Ecological Information		
	Ecotoxicity	:	$LC_{50} = 7,700 \text{ mg/L/96h}$ (rainbow trout): Sodium bicarbonate
	Persistence/Degradability	:	No data available
	Bioaccumulative Potential	:	No data available
	Mobility in Soil	:	No data available
	Hazardous to the Ozone Layer	:	No data available

13. Disposal Considerations

- Have the contents/container disposed of by an industrial waste disposal contractor licensed by the prefectural governor.
- Dumping is prohibited.
- If this product is to be disposed of by landfill, incinerate it in advance by using an incineration system, and ensure that the burned residue does not exceed the criteria specified in the Cabinet Order for Enforcement of the Act on Waste Management and Public Cleansing.
- If this product is to be burned, burn it in a safe place using a method that does not cause harm or damage to other people or objects due to burning or explosion, and have someone stand guard.

14. Transport Information UN Classification : N/A

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Denshijiki Industry Co., Ltd.

UN No. : N/A

Transport this product using containers and loading methods as specified by the following law:

Fire Service Act : N/A

Follow other related laws and regulations.

15.	Regulatory Information		
	Fire Service Act	:	N/A
	Chemical Substances Control Act	:	Priority assessment chemical substance No. 188: alpha-alkyl ($C = 9$ to 11)- omega-hydroxypoly (oxyethylene) (limited to those with a number average molecular weight of less than 1,000)
	Pollutant Release and Transfer Register Act (PRTR Act)	:	Polyoxyethylene decyl ether (1.900%) (CAS RN: 26183-52-8): Class I, Cabinet Order No. 1-041, Control No. 580 [alpha-alkyl-omega-hydroxypoly (oxyethylene) (those with an alkyl group carbon number of 9 to 11 and their mixtures, but limited to those with a number average molecular weight of less than 1,000)]
	Poisonous and Deleterious Substances Control Act	:	N/A
	Industrial Safety and Health Act	:	Dangerous and harmful substances whose names, etc. should be indicated or notified (Appended Table 9) No.192 Iron oxide
	Water Pollution Prevention Act	:	Designated substances (Article 3) No. 52 Iron and its compounds

16. Other Information

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)

Disclaimer

Safety Data Sheets are provided to business users of hazardous chemical products as reference information to ensure their safe handling.

The information contained in this SDS is based on the documents, information, and data available to us at the time of preparation or revision, but we do not represent any guarantee as to its correctness or safety.

All chemical products may have unknown hazards and should be handled with great care.

The precautions in this SDS assume normal handling. If this product is to be used in a special manner, the user is responsible for taking appropriate measures for that particular use. Please take safety measures appropriate for the usage.

This Safety Data Sheet was prepared in accordance with JIS Z 7253:2019 and is subject to change as new findings, including test results, become available.