

# MATERIAL SAFETY DATA SHEET

Katsuragawa Electric Co.,Ltd.  
Trade name: H734 toner(KIP1900)

Revision: T-02

## 1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

### 1.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION:

KIP1900 toner

### 1.2 USE OF THE SUBSTANCE OR PREPARATION

Toner

### 1.3 IDENTIFICATION OF THE COMPANY:

Katsuragawa Electric Co.,Ltd.

21-1, Shimomaruko 4-chome, Ota-ku, Tokyo Japan

TEL:+81-3-3758-3550 FAX:+81-3-3758-7568

### 1.4 EMERGENCY TELEPHONE

+81-3-3758-3550

## 2. COMPOSITION/INFORMATION ABOUT THE COMPONENTS

2.1 Name: Mixture of Styren-Acrylic resin and Colorant

2.2 CAS number

2.3 EINECS number

CHEMICAL NAME	CAS No.	EINECS No.	CONTENTS	SYMBOLS/R-PHRASE
Styren-acrylic resin	26655-10-7	-	50 - 60	Not required
Iron Oxide	1309-38-2	215-277-5	35 - 45	Not required
Polypropylene	9003-07-0	204-062-1	3 - 5	Not required
Cl.Solvent Black7	8005-02-5	-	1 - 3	Not required
Amorphous silica	68611-44-9	271-893-4	< 1	Not required

## 3. HAZARD IDENTIFICATION

3.1 When used appropriately, no adverse effects are known to be caused by the product. Due to the fine particle, toner dust in high concentrations can form explosive mixtures in air, if ignited could result in dust explosions.

## 4 FIRST AID MEASURES

- 4.1 INHALATION: Remove from exposure.
- 4.2 CONTACT WITH SKIN: Wash affected areas with water while removing contaminated clothing.
- 4.3 CONTACT WITH EYES: Flush eyes with generous amounts of water for at least 5 minutes.
- 4.4 INGESTION: If swallowed, no treatment indicated.

## 5 FIRE-FIGHTING MEASURES

- 5.1 SUITABLE EXTINGUISHING METHODS: Water spray, dry chemical, carbon dioxide, form.
- 5.2 METHODS NOT SUITABLE FOR SAFETY REASONS: Water jet.
- 5.3 SPECIAL EXPOSURE HAZARDS: Carbon monoxide, carbon dioxide.
- 5.4 SPAECIAL PROTECYIVE EQUIPMENT: Respirator.

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## 6 ACCIDENTAL RELEASE MEASURES

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- 6.1 PERSONAL PRECAUTIONS: Prevent dust formation. Remove ignition sources.  
6.2 ENVIRONMENTAL PRECAUTIONS: Keep out of drains, surface and underground water and the ground.  
6.3 METHODS FOR CLEANING UP: Sweep up spilled material with vacuum cleaner.

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## 7 HANDLE AND STORAGE

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- 7.1 HANDLING: The usual precautionary measures have to be applied when dealing with chemicals. Prevent dust depositing. Take preventive measures against dust explosion. Keep away from ignition sources.  
7.2 STORAGE: Keep containers upright and tightly closed when in no use. Keep away from heat, steam or sunlight.  
7.3 SPECIFIC USES: Dry toner

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## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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- 8.1 TLV-TWA: (mg/m<sup>3</sup> MAK) n.a.  
8.2 PERSONAL PROTECTIVE EQUIPMENT:  
RESPIRATORY PROTECTION: Approved dust respirator.  
HAND PROTECTION: Gloves.  
EYE PROTECTION: Goggles.  
SKIN PROTECTION: Coveralls, Apron, and Boots.  
8.3 SPECIAL HYGIENE METHODS: n.a.  
8.4 ADDITIONAL INFORMATION: No information.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

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- 9.1 PHYSICAL FORM  
APPEARANCE: Powder  
COLOR: Black  
ODOR: No odor.
- 9.2 PROPERTIES:
- |                       | VALUE   | UNIT | METHOD |
|-----------------------|---------|------|--------|
| MELTING POINT:        | 140-150 | °C   |        |
| FREEZING POINT:       | n.a.    | °C   |        |
| CLOUD POINT:          | n.a.    | °C   |        |
| BOILING POINT:        | n.a.    | °C   |        |
| FLASH POINT:          | n.a.    | °C   |        |
| IGNITION TEMPERATURE: | n.a.    | °C   |        |
| AUTOIGNITION:         | n.d.    | °C   |        |
| OXIDISING PROPERTIES: | None    |      |        |
| DANGER OF EXPLOSION   |         |      |        |
| -PRODUCT:             | n.d.    |      |        |
| -MIXTURE POWDER/AIR   | n.d.    |      |        |
| EXPLOSION LIMITS:     |         |      |        |

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-LOWER:	110	g/m <sup>3</sup>
-UPPER:	n.d.	g/m <sup>3</sup>
VAPOR PRSSURE(20°C):	n.a.	mbar
DENSITY(20°C):	0.9-1.1(aprox.)	g/mL
APPARENT DENSITY:	0.3-0.4	g/mL
SOLUBILITY(20°C)		
-WATER SOLUBILITY:	Insoluble	
-FAT SOLUBILITY:	Soluble in acetone, toluene.	
pH(20°C,H2O):	n.a.	

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## 10 TABILITY AND REACTIVITY

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- 10.1 CONDITIONS TO AVOID: Sources of ignition. Dust formation.
- 10.2 MATERIALS TO AVOID: Strong oxidants.
- 10.3 HAZARDOUS DECOMPOSITION
- PRODUCTS: Stable at normal strage and handling temperature.
- 10.4 ADDITIONAL INFORMATION: Dust-air mixture can explode.

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## 11 TOXICOLOGICAL INFORMATION

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- 11.1 ACUTE EFFECT: LD50(ORAL-RAT)  
n.d.
- 11.2 IRRITATION: n.d.
- 11.3 SENSITIZATION: n.d.
- 11.4 CHRONIC TOXICITY: n.d.
- 11.5 ROUTE OF ENTRY: Inharation of dust and ingestion.
- 11.6 ADDITIONAL INFORMATION: None.

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## 12 ECOLOGOCAL INFORMATION

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- 12.1 WATER SOLUBILITY(20°C): n.a.
- 12.2 DISTRIBUTION COEFFICIENT  
N-OCTANOL/WATER n.a.
- 12.3 BIODEGRADABILITY: (28days) n.d.
- 12.4 COD: n.d. mgO<sub>2</sub>/g
- 12.5 BOD5 n.d.. mgO<sub>2</sub>/g
- BOD28 n.d. mgO<sub>2</sub>/g
- 12.6 FISH TOXICITY: (LC50) n.d. mg/L
- 12.7 BACTERIA TOXITY: (EC50) n.d. mg/L
- 12.8 ALGA TOXICITY: (LC50) n.d. mg/L
- 12.9 DAPHNIA TOXICITY: (LC50) n.d. mg/L
- 12.10 WATER CONTAMINATION CLASS: WGK 0 (generally not hazardous for aquatic organisms)

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## 13 DISPOSAL CONSIDERATIONS

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- 13.1 PRODUCT: Dispose of the product in accordance with local, state and federal regulations. Waste disposal by controlled incineration or designated landfill subject to applicable local, state and federal regulations.
- 13.2 PACKAGING: Contaminated packaging material is hazardous to health or environment. Controlled disposal according to applicable local, state and federal regulation.

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## 14 TRANSPORT INFORMATION

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- 14.1 ADR: n.a.
- 14.2 IMCO: n.a.
- 14.3 IATA: n.a.
- 14.4 UN NUMBER: n.a.
- 14.5 ADDITIONAL INFORMATION: Not subject to transport regulations.

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## 15 REGULATORY INFORMATION

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- 15.1 Directive 67/548/EC and its modifications and later transpositions.  
According to our data, this product is not dangerous in the sense of this directive.
- 15.2 Environmental control in California state (Proposition 65)  
This toner doesn't contain any corresponding material described in the list.

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## 16 OTHER INFORMATION

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- 16.1 None

All information given in this data sheet is to the best our knowledge. Because of the nature of the product, the user assumes all risk with respect to it. The data in this safety data sheet refer to the above product, but may not be valid for combination with other process. This data shall describe our product referring to questions of safety, but not declaration of quality or properties.

n.a.-not applicable

n.d.-not determined