
SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier:**Product Name:** Toner for KIP770**Product Code:** None**Relevant Identified Uses and Uses Advised Against :** This product is a toner used in printers/copiers.**Manufacturer:****Address:****Details of Supplier of Safety Data Sheet:****Supplier:** KATSURAGAWA ELECTRIC CO., LTD.**Address:** 21-1, Shimomaruko 4-Chome, Ota-ku, Tokyo 146-8585, Japan**Telephone Number:** 81-3-3758-3550**E-mail Address:****Emergency Telephone Number:** 81-3-3758-3550

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview: This product is not classified as dangerous according to the latest adaptations of EU Directive 1999/45/EC or 67/548/EEC.

Appearance and odor : Fine black powder, slight plastic odor.

US Regulatory Status: Hazardous under OSHA HCS.**US Label Elements:****Signal Word:** Not required**Hazard Warning:** Not required**Safety Advice:** Not required**Hazardous Component:** None**EU Classification:** Not classified as dangerous.**EU Label Elements:****Symbol & Indication:** Not required**R-Phrase:** None**S-Phrase:** None**Dangerous Component:** None**Applicable Label Elements in accordance with Annex V to 1999/45/EC:** Not applicable**Authorisation# under (EC)****No 1907/2006:** None

Other Hazards: Fine and explosion hazard:
This product, like most organic powders, can cause a dust explosion if particles form thick clouds.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture

Ingredient(s):

Chemical Name/ Generic Name	CAS#	EC#/ Registration#	Concentration/ Concentration Range (%)	EU Classification according to 67/548/EEC		EU Classification according to (EC) No 1272/2008	
				Symbol/ Indication of Danger	R-Phrase* ¹	Hazard Class/ Category Code	Hazard Statement* ¹
Polyester resin	186397-54-6	Not applicable	65-75%	None	None	None	None
Polyester resin	148556-68-7	Not applicable	15-25%	None	None	None	None
Carbon black	1333-86-4	215-609-9	3-7%	None	None	None	None
Polypropylene	9003-07-0	Not applicable	1-5%	None	None	None	None
pigment	147-14-8	205-685-1	0.1-1%	None	None	None	None
Dye	104815-18-1	403-590-1	0.5-1.5%	None	None	None	None
Amorphous Silica	7631-86-9	231-545-4	1-3%	None	None	None	None

*1 Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

Carcinogen(s):

Chemical Name:	CAS#:	Reference:
Carbon black	1333-86-4	2B (IARC)

PBT Substance(s) and vPvB Substance(s):

Chemical Name:	CAS#:	Category:
None		

Substance(s) listed in Candidate List of SVHC:

Chemical Name:	CAS#:	Category:
None		

SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation: Provide fresh air immediately. If symptoms occur, seek medical advice.

Ingestion: Clean mouth out with water. Drink several glasses of water. If sickness develops, seek medical advice.

Skin: Wash out particles with plenty of water and soap. If irritation develops, seek medical advice.

Eye: Do not rub eyes. Immediately rinse with plenty of clean running water until particles are washed out. If irritation persists, seek medical advice.

Most Important Symptoms and Effects, both Acute and Delayed:

Inhalation: None known.

Ingestion: None known.

Skin : None known.

Eye: None known.

Chronic Effects: None known.

Medical Conditions Generally known to be Aggravated by Exposure: None known.

Indication of Any Immediate Medical Attention and Special Treatment Needed: None known.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media: Carbon dioxide, water, foam, dry chemical

Unsuitable Extinguishing Media: None known.

Special Hazards: None known.

Hazardous Combustion Products: Toner, like most organic powders, is capable of creating a dust explosion when particles are dispersed. Carbon monoxide and carbon dioxide are hazardous resulting gases.

Advice for Fire-fighters: None known.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Avoid dust formation. Do not breathe dust.

Wear personal protective equipment as described in Section 8.

Environmental Precautions: Do not discharge into drains.

Methods and Material for Containment and Cleaning Up: Eliminate source of ignition and flammables. Vacuum or sweep the material into a sealed container. If a vacuum cleaner is used, it must be dust explosion-proof. Dispose of the material in accordance with Federal/state/local requirements.

Reference to Other Sections: Refer to section 13.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Keep out of reach of children.
Avoid dust formation. Handle in adequately ventilated areas.
Do not breathe dust. Do not get in eyes or on skin.
Keep away from excessive heat and sources of ignition such as sparks and open flames.
Ensure all the equipment is electrically earthed/grounded before beginning operation.

Conditions for Safe Storage, Including Any Incompatibilities: Keep out of reach of children.
Keep container closed and store at room temperature.
Keep away from excessive heat and sources of ignition.
Do not store with strong oxidizers.

Specific End Uses: This product is a toner used in printers/copiers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**Control Parameters:**

Product:	USA OSHA PEL	ACGIH TLV	EU OEL	DFG MAK
toner	Total dust: 15mg/m ³ Respirable fraction: 5mg/m ³	Inhalable particulate: 10mg/m ³ Respirable particulate: 3mg/m ³	None known.	None known.

Ingredient(s):	USA OSHA PEL	ACGIH TLV	EU OEL	DFG MAK
Carbon black	3.5mg/m ³	3.5mg/m ³	None known.	None known.
Amorphous silica	20mppcf* or 80%/SiO ₂ mg/m ³ (* million particles per cubic foot)	Not listed	None known.	None known.

Exposure Controls:

Engineering Controls: Good general ventilation should be sufficient under normal conditions of use.
Gloves are recommended.
Protective goggles or safety glasses are recommended.
Personal respiratory mask is not required under normal conditions of use, but a respirator is needed in case of dust formation.

DNEL(s): Not available

PNEC(s): Not available

Individual Protection Measures:

Eye/Face Protection: Required Not Required

Skin Protection: Required Not Required

Respiratory Protection: Required Not Required

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**Information on Basic Physical and Chemical Properties:**

Appearance: Fine black powder

Odor: None or slight plastic-like odor

pH: Not applicable

Melting Point/Freezing Point (°C): 120-130 degrees centigrade (Softening Point)

Initial Boiling Point and Boiling Range (°C): Not applicable

Flash Point (°C): Not applicable

Evaporation Rate: Not applicable

Flammability: Not applicable

Upper/Lower Flammable or Explosive Limits: Not applicable

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Date of Issue:

Revision Date: Ver. 2014/1/15

Relative Density:	Not applicable
Water Solubility:	Negligible
Fat Solubility:	Partially soluble in toluene and THF
Partition Coefficient (n-Octanol/Water):	Not applicable
Auto-ignition Temperature (°C):	Not applicable
Decomposition Temperature (°C):	> 200°C
Viscosity (mPa s):	Not applicable
Explosive Properties:	Not applicable
Oxidizing Properties:	Not applicable
Other Information:	None

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	No hazardous polymerization will occur.
Chemical Stability:	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Possibility of Hazardous Reactions:	None
Conditions to Avoid:	Excessive heat, Dust formation
Incompatible Materials:	Strong oxidizers, which could vigorously oxidize organic materials in this mixture and cause a fire in an extreme case.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide when combusted.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:**Acute Toxicity:****Inhalation:** No data available**Ingestion:** This product : LD50rat > 2,000mg/kg
Similar product : LD50rat > 5,000mg/kg (OECD 425), not harmful. 1)**Corrosivity/Irritation:****Skin:** This product is classified as nonirritant to the dermal tissue of rabbit. 1)**Eye:** This product is classified as nonirritant to the ocular tissue of rabbit. 1)**Sensitization:****Skin:** No data available**Repeated Dose Toxicity:** No data available**Carcinogenicity:** No data available
In 1996 the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung tumors. Moreover, a two-year cancer

bioassay using a typical toner product containing carbon black demonstrated no association between toner exposure and tumor development in rats. 2)

Mutagenicity: Ames test (Salmonella typhimurium , Escherichia coli) negative. 1)

Toxicity for Reproduction: No data available

Other Information: Not available

Toxicokinetics, Metabolism and Distribution: Not available

SECTION 12 ECOLOGICAL INFORMATION

Toxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Results of PBT and vPvB Assessment: No data available

Other Adverse Effects: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Waste material may be dumped or incinerated on condition that meets all country, state and local environmental regulations.
Recommendation: consult with the disposal agency and the relevant authorities; cleansing agent is water.

SECTION 14 TRANSPORT INFORMATION

UN Number: None

UN Proper Shipping Name: None

Transport Hazard Class: None

Packing Group: None

Environmental Hazards: None

Special Precautions for User: None

Transport in Bulk according to Annex II of MARPOL 73/78 and IBC Code: Not applicable

Other Information: It is not regulated for air-transport IATA regulation.

SECTION 15 REGULATORY INFORMATION

US Information:**SARA Title III, 313:****Chemical Name:****Wt%:**

None

California Proposition 65:**Chemical Name:****Wt%:**

None

EU Information:**Safety, Health and Environmental Regulations/Legislation:****(EC) No 1907/2006:****Authorisation:**

Not regulated

Restriction:

Not regulated

(EC) No 1005/2009:

Not regulated

(EC) No 850/2004:

Not regulated

(EC) No 689/2008:

Not regulated

Others:

None

Chemical Safety Assessment under (EC) No 1907/2006:

Not assessed

SECTION 16 OTHER INFORMATION

Other Information:

OSHA Hazard Communication Standard 29 CFR 1910.1210, EU Directives 1999/45/EC and 67/548/EEC mean their latest adaptation in this safety data sheet.

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Annex:

None

Date of Issue:**Revision Date:**

Jan. 15, 2014

Literature Reference:

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- 1). In-house data
 - 2). •EC-directives 67/548/EEC and 99/45/EC
 - IARC Monographs volumes 1-104
 - EPA, Proposed Guidelines for Carcinogen Risk Assessment (1986)
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Date of Issue:**Revision Date:** Ver. 2014/1/15

Abbreviations:

EU: European Union

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

SVHC: Substances of Very High Concern

OSHA PEL: PEL (Permissible Exposure Limit) under Occupational Safety and Health Administration

ACGIH TLV: TLV (Threshold Limit Value) under American Conference of Governmental Industrial Hygienists

EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC Annex, 98/24/EC Annex, 91/322/EEC Annex, 2000/39/EC Annex, 2006/15/EC Annex and 2009/161/EU

DFG MAK: MAK (Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration

SAFETY DATA SHEET

MSDS No.1215

Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : PHOTOCUNDUCTIVE DRUM
 Distributor
 Name : KATSURAGAWA ELECTRIC CO., LTD.
 Address : 21-1, Shimomaruko 4-Chome, Ota-ku, Tokyo 146-8585, Japan

Telephone Number: +81 3 3758 3550

Section 2. HAZARDS IDENTIFICATION

Classification of GHS : Not applicable
 Physical and Chemical Hazard : No significant hazards associated with this product
 Potential Health Effects : No significant hazards associated with this product
 Environmental Effects : No significant hazards associated with this product

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	wt%	CAS №	OSHA PEL	ACGIH TLV
Aluminum	99.39wt%	7429-90-5	15mg/m ³ *	10mg/m ³ (TWA)*
Titanium Dioxide	<0.5wt%	13463-67-7	15mg/m ³	10mg/m ³ (TWA)
Phthalocyanine Compound	<0.5wt%	-----	-----	-----
Aromatic amine compound	<1.0wt%	-----	-----	-----
Polycarbonate resin	<1.0wt%	-----	-----	-----
Silicon oil	<0.1wt%	-----	-----	-----

* Listed not as aluminum tube but as aluminum dust

Section 4. FIRST AID MEASURES

First Aid Measures

Ingestion : Not applicable under normal use
 Inhalation : Not applicable under normal use
 Eye contact : Not applicable under normal use
 Skin contact : Not applicable under normal use

Section 5. FIRE FIGHTING MEASURES

Extinguish Media : CO₂, Dry chemicals

Special Fire Fighting Procedures :

Use self contained breathing apparatus and full protection against dust and fumes
 in case that a large quantity of drums produces fumes or vapors at a high temperature.

Unusual Fire and Explosion Hazards : None under normal storage and use conditions.

SAFETY DATA SHEET

MSDS No.1215

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : No special precaution
Environmental Precautions : No special precaution
Method for Cleaning Up : No special precaution

Section 7. HANDLING AND STORAGE

Handling : No special precaution concerning safety
Storage : To keep the function of the drum, store in moderately cool,
dark and dry place

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Guidelines : None
Engineering Controls : Not required under normal use
Personal Protection Equipment(s)
Respiratory Protection :Not required under normal use
Eye/Face Protection :Not required under normal use
Skin Protection :Not required under normal use

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Personal Protection Equipment(s)
Appearance : Green cylinder
Odor : No odor
pH : Not applicable
Boiling Point : No data available
Melting Point : No data available
Decomposition Temperature : No data available
Flash point : No data available
Flammable (explosive) Limits : Not applicable
Autoignition Temperature : No data available
Flammability : Not applicable
Explosive Properties : Not applicable
Oxidizing Properties : Not applicable
Vapor pressure : Not applicable
Vapor density : Not applicable
Density/Specific Gravity : 2.7(H₂O=1)
Water Solubility : Negligible
Fat Solubility : No data available
Partition Coefficient (n-Octanol/Water) : No data available
Percent Volatile : No data available
Evaporation Rate : No data available

SAFETY DATA SHEET

MSDS No.1215

Section 10. STABILITY AND REACTIVITY

Stability	: Stable
Conditions to avoid	: No data available
Materials to Avoid	: Strong oxidizing agents and organic solvents
Hazardous Decomposition Products	: None under normal use
Hazardous Polymerization	: Will not occur
Conditions to avoid	: No data available

Section 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	: No data available
Acute Dermal Toxicity	: No data available
Acute Inhalation toxicity	: No data available
Acute eye irritation	: No data available
Acute skin irritation	: No data available
Skin sensitization	: No data available
Mutagenecity	: Negative in Ames Test (coating material)
Reproductive Toxicity	: No reproductive toxicity according to MAK, Proposition 65,
Acute eye irritation	: No data available
	TRGS 905 and EU directive.
Carcinogenecity	: No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH,EPA, OSHA, NTP, ILO, MAK, Proposition 65, TRGS 905 and EU Directive.
Others	: None

Section 12. ECOLOGICAL INFORMATION

Mobility	: No data available
Persistence Degradability	: No data available
Bioaccumulation	: No data available
Ecotoxicity	: No data available
Other Adverse Effect	: No data available

Section 13. DISPOSAL CONSIDERATIONS

Method of Disposal	: OPC drum may be disposed as the waste aluminum in accordance with local, state and federal regulations.
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SAFETY DATA SHEET

MSDS No.1215

Section 14. TRANSPORT INFORMATION

UN No.	: None
UN Shipping Name	: None
Un Classification	: None
UN Packing Group	: None
Special Precaution	: It is not [Dangerous Goods] specified by IATA regulations

Section 15. REGULATORY INFORMATION

Label information according to the Directives 1999/45/EC and 67/548/EEC (EU)

Symbol and Indication	: Not required
R-Phrase	: Not required
S-Phrase	: Not required
Dangerous Component(s)	: None
Other	: None

Section 16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate.
However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.