Material Safety Data Sheet

Material Name: L1101 トナー **KCDS-No.R7224**

* * * Section 1 - Chemical Product and Company Identification * * *

Chemical Name: Black Toner

Manufacturer Information

KAO CORPORATION
1-3, Bunka, 2-chome, Sumida-ku
Tokyo, JAPAN 131-8501

Phone #: Japan: 011-81-3-5630-7625

Emergency # Japan: 011-81-3-5630-7625

Distributor/Contact Information

KAO CORPORATION
1334, Minato, Wakayama-City
Wakayama, JAPAN 640-8580

Phone #: Japan: 011-81-73-426-8557

Emergency #: Japan: 011-81-73-426-8557

* * * Section 2 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
1333-86-4	Carbon black	3-7
7631-86-9	Silica, amorphous	1.2-2.2
1344-28-1	Aluminum oxide	0.05-0.5

Component Information/Information on Non-Hazardous Components

Components of this product are listed under OSHA 29 CFR 1910.1000. See Section 15 for further regulations.

* * * Section 3 - Hazards Identification * * *

Emergency Overview

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Fine, black, water insoluble, odorless powder. May be harmful if swallowed or inhaled. Product presents no serious risk of chemical damage to the eyes or skin.

FLASH POINT: Not applicable

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0
Personal Protection: (See Section 8) - Use protective goggles. Use suitable protective gloves.
Use a NIOSH approved dust/mist respirator.

See section 5 for fire fighting measures.

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Label Information

Non-hazardous for transportation purposes.

Potential Health Effects: Eyes

This product presents no serious risk of chemical damage to the eyes.

Potential Health Effects: Skin

This product presents no serious risk of chemical damage to the skin.

Potential Health Effects: Ingestion

This product may be harmful if swallowed.

Potential Health Effects: Inhalation

Respiratory tract may be affected by exposure to large amounts of dust from this product.

HMIS Ratings: Health: 1 **Fire:** 1 **Reactivity:** 0 **Pers. Prot.:** (See Section 8)

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

Flush eyes with plenty of water for a minimum of 15 minutes, and seek medical attention.

First Aid: Skin

Wash material off of skin with plenty of soap and water.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice.

First Aid: Inhalation

Remove person to fresh air and seek medical attention. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

First Aid: Notes to Physician

Not provided

* * * Section 5 - Fire Fighting Measures * * *

Flash Point: Not applicable
Method Used: Not applicable
Upper Flammable Limit (UFL): Not available
Lower Flammable Limit (LFL): Not available
Auto Ignition: Not available
Flammability Classification: Not available
Rate of Burning: Not available

General Fire Hazards

Minimal fire hazard. Material is self-extinguishing.

Hazardous Combustion Products

Combustion or decomposition will generate phenol derivatives, carbon monoxide, or carbon dioxide over 300°C (572°F).

Extinguishing Media

Dry chemical or carbon dioxide for small fires.
Alcohol resistant foams for large fires.

Fire Fighting Equipment/Instructions

Not provided

NFPA Ratings: Health: - Fire: - Reactivity: - Other: -

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* * * Section 6 - Accidental Release Measures * * *

Containment Procedures

Review FIRE FIGHTING MEASURES (Section 5) and EXPOSURE CONTROLS/PERSONAL (Section 8) before proceeding with cleanup. Use appropriate personal protective equipment during cleanup. Prevent release of material into the natural environment.

Clean-Up Procedures

If the product is spilled, Sweep up the material and recover it, or mix the spilled material with moist absorbent and shovel into suitable waste container. This material is non-hazardous under RCRA.

Evacuation Procedures

Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Special Procedures

Not applicable

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Use protective gloves and goggles.

Storage Procedures

Keep containers tightly closed and store in a cool, well ventilated area. Storage below 35°C (95°F) is recommended to prevent product from caking.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Exposure Guidelines

A: General Product Information

This substance is generally non-hazardous but keep exposure to a minimum.

B: Component Exposure Limits

Carbon black (1333-86-4)

ACGIH: 3.5 mg/m3 TWA
OSHA: 3.5 mg/m3 TWA
NIOSH: 0.1 mg PAH's/m3 [carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)]; NIOSH Potential Occupational Carcinogen - see Appendix A; see Appendix C for supplementary exposure limits

Silica, amorphous (7631-86-9)

NIOSH: 6 mg/m3 TWA

Aluminum oxide (1344-28-1)

NIOSH: 10 mg/m3 TWA as Al
OHSA-final PELs: 15 mg/m3 TWA as Al
OHSA Vacated PELs: 10 mg/m3 TWA as Al

Engineering Controls

Use local exhaust ventilation. (Use local ventilation in dusty areas.)

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Use protective goggles.

Personal Protective Equipment: Skin

Use suitable protective gloves.

Personal Protective Equipment: Respiratory

Use a NIOSH approved dust/mist respirator.

Personal Protective Equipment: General

Not applicable

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Black powder	**Odor:**	odorless
Physical State:	solid	**pH:**	Not available
Vapor Pressure:	Not applicable	**Vapor Density:**	Not available
Boiling Point:	Not applicable	**Melting Point:**	Not applicable
Solubility (H2O):	insoluble	**Specific Gravity:**	1.16 at 20°C (68°F)
Particle Size:	~0.01 mm	**Softening Point:**	135-145°C (275-293°F)

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

Stable

Chemical Stability: Conditions to Avoid

Not available

Incompatibility

Strong oxidizing agents

Hazardous Decomposition

Combustion or decomposition will generate phenol derivatives, carbon dioxide, and carbon monoxide over 300°C (572°F).

Hazardous Polymerization

Will not occur

* * * Section 11 - Toxicological Information * * *

General Toxicity

A: General Product Information

Not available

B: Component Analysis

No information is available.

Carcinogenicity

A: General Product Information

See below

B: Component Carcinogenicity

Carbon black (1333-86-4)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
NIOSH: occupational carcinogen
IARC: Monograph 65; 1996 (Group 2B (sufficient animal data))

Silica, amorphous (7631-86-9)

IARC: Monograph 68; 1997 (Group 3 (not classifiable))

Epidemiology

Not available

Neurotoxicity

Not available

Mutagenicity

Not available

Teratogenicity

Not available

Other Toxicological Information

Not available

* * * Section 12 - Ecological Information * * *

Ecotoxicity

Not available

Environmental Fate

Not available

* * * Section 13 - Disposal Considerations * * *

US EPA Waste Number & Descriptions

A: General Product Information

Not applicable

B: Component Waste Numbers

No information is available.

Disposal Instructions

Dispose of material waste in accordance with governmental regulations. Prevent release of material into natural environment.

* * * Section 14 - Transportation Information * * *

US DOT Information

Shipping Name:

Hazard Class: Not applicable

UN/NA #: Not applicable

Packing Group: Not applicable

Required Label(s): Not applicable

Additional Info.: Not available

International Transportation Regulations

See above

* * * Section 15 - Regulatory Information * * *

US Federal Regulations

A: General Product Information

Regulated

B: Component Analysis

Aluminum oxide is Listed under CERCLA/SARA Section 313 Emission Repoting

Other components are not listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

Regulated

B: Component Analysis

Component	CAS #	CA	FL	MA	MN	NJ	PA
Carbon black	1333-86-4	Y	N	Y	Y	Y	Y
Silica, amorphous	7631-86-9	Y	Y	Y	Y	Y	Y
Aluminum oxide	1344-28-1	Y	N	Y	Y	Y	Y

Other Regulations

A: General Product Information

In Mexico, this product's component, Carbon black, is regulated under:

Safety and Hygiene Conditions in the Workplace

-Instruction No. 10 - STELs: 7 mg/m

-Instruction No. 10 - TWAs: 3.5 mg/m

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Carbon black	1333-86-4	1% item 309 (1271)

Silica:

In Canada:

-WHIMIS ingredient disclosure for Silica (amorphous, fumed) is required as a 1% item. 1403(1488);

-Exposure limits under OHSA exist in Ontario and Quebec.

Aluminum oxide:

In Canada:

-WHIMIS ingredient disclosure for Aluminum is required as a 1% item. 44(195);

-Exposure limits under OHSA exist in Ontario.

All components of this product are on the TSCA Inventory

B: Component Analysis

* * * Section 16 - Other Information * * *

Other Information

TO THE BEST OF THE MANUFACTURER'S KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE MANUFACTURER, NOR ANY OF ITS AFFILIATES, MAKE ANY REPRESENTATIONS OR WARRANTIES (EXPRESSED OR IMPLIED), NOR ASSUMES ANY LIABILITY (INCLUDING LIABILITY FOR ANY DIRECT, INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES) WITH RESPECT TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. SUCH INFORMATION MAY BE (WITHOUT LIMITATION) INVALID IF THE SPECIFIED MATERIAL IS USED IN COMBINATION WITH ANOTHER, IN A PARTICULAR PROCESS, OR UNDER UNUSUAL CONDITIONS. DETERMINATION OF SUITABILITY OF ANY MATERIAL FOR ANY GIVEN PURPOSE IS THE SOLE RESPONSIBILITY OF THE USER WHO ASSUMES ALL RISK AND RESPONSIBILITY THEREFOR. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH APPROPRIATE CAUTION. THE MANUFACTURER CANNOT AND DOES NOT GUARANTEE THAT THE HAZARDS DESCRIBED HEREIN ARE THE ONLY ONES THAT EXIST.

Please replace all prior MSDSs for this product with the most current issue.

Key/Legend

Not provided

Contact: Yasuhiro Hidaka Performance Chemicals Research Laboratories Kao Corporation

Contact Phone: Japan:011-81-73-426-8557

This is the end of MSDS.