

MATERIAL SAFETY DATA SHEET

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 May 2001
 Version 3

KONICA TONER

Not classified as hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company: KONICA Australia Pty Limited A.C.N. 001 065 096
 Address: 22 Giffnock Avenue North Ryde NSW 2113
 Phone: (02) 9878 5333 Fax: (02) 9886 0348

EMERGENCY PHONE NUMBER: (02) 9886 0320

between the hours of 9.00 am and 5.00 pm, each week day except on public holidays

IDENTIFICATION

Product Name: KONICA TONER, 2028 / 2125 / 3031 / 3035
 3135 / 4045 / 4145 / 4155
 4255 / 4345 / 4355

Other Names: -
 Product Code: -
 UN Number: Free
 Dangerous Goods Class: None allocated
 Subsidiary Risk: None allocated
 Packaging Group: None allocated
 Poison Schedule: None allocated

Major use: Toner for photocopiers.

Physical Description / Properties

Appearance: Fine black powder (mean diameter approx. 8um)
 Odour: Slight mild odour
 Melting point: approximately 130°C (softening point)
 Boiling point: not relevant
 Vapour pressure: not relevant
 Specific Gravity: approximately 1.1 at 20°C
 Flash point: not relevant
 Flammability limits: Upper: not relevant Lower: not relevant
 Solubility in water: practically insoluble

Other Properties

Decomposition temperature: > 200°C

Ingredients

| Chemical Entity | CAS No. | Wt.% | Symbol | R Phrases |
|-----------------------|-----------|------------|--------|-----------|
| Styrene Acrylic Resin | ***** | 80% | ---- | ---- |
| Carbon Black | 1333-86-4 | 7 – 12% | ---- | ---- |
| Wax 1 | ***** | ---- | ---- | ---- |
| Wax 3 | ***** | ---- | ---- | ---- |
| Silica (amorphous) | 7631-86-9 | 0.5 – 1.5% | ---- | ---- |

***** Exact identity of ingredient(s) is commercially confidential.

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HEALTH HAZARD INFORMATION

Health Effects - Acute

No adverse health effects are expected if the product is handled in accordance with this Material Safety Data Sheet.

- Swallowed: No evidence for humans. Swallowing is unlikely to be a hazard.
- Eye: Low eye hazard. Due to the relatively large particle size, the product may cause physical irritation and possible abrasive damage.
- Skin: Skin contact is not likely to be a hazard except where the product may cause physical irritation or abrasive damage if it stays in prolonged contact with the skin.
- Inhaled: No observation of effects on humans or animals is available. Inhalation of dusts that could arise from the product may cause upper airway irritation, coughing and sneezing, as with exposure to large amounts of any non-toxic dust.

Health Effects - Chronic

There are no reports of the health effects in workers arising from long term exposure to this substance. No animal tests have been conducted for long term effects. Mutagenicity (Ames) test with *Salmonella typhimurium*: negative.

The International Agency for Research on Cancer (IARC) has classified carbon black as possibly carcinogenic to humans (Group 2B). In the absence of adequate data on humans, it is prudent to keep exposure as low as possible and not to exceed the established exposure standards.

First Aid

- Swallowed: Rinse mouth with water. If conscious give plenty of water to drink. Do not induce vomiting.
Seek medical advice from a medical practitioner if gastric problems arise.
- Eye: If contact with the eyes occurs, or if eye irritation arises, hold the eyelids open and flush the eyes immediately with fresh tepid water for at least 15 minutes.
Get medical attention for all eye contact.
- Skin: Wash exposed skin with plenty of mild soap and water. Remove contaminated clothing and wash before re-use.
- Inhaled: Move affected person to fresh air.
If unwell, or if respiratory symptoms occur, consult a doctor.

First aid facilities: Eye washes

**In case of doubt, or where symptoms persist, seek medical attention.
Show this Material Safety Data Sheet to the medical practitioner.**

Advice to Doctor: None specific, treat symptomatically.

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PRECAUTIONS FOR USE

Exposure Standards

The Worksafe Australia exposure standard for nuisance dust should be observed:
10mg/m³ air, inspirable dust, as an eight hour time-weighted average (TWA)
Compliance with the above exposure standard for dusts in general will ensure that the exposure standard established by Worksafe Australia for:
Carbon black: 3.5mg/m³ as an eight hour time-weighted average (TWA) will not be exceeded.
Silica (amorphous): 10mg/m³ as an eight hour time-weighted average (TWA) will not be exceeded.

Engineering Controls

The main hazard from this product is in the production of dust. Do not handle in areas where there are wind draughts. If needed, engineering controls should be employed which minimise the production of dust. However, in conditions of normal use, mechanical ventilation is not usually required.

Personal Protection

Respiratory protection is not normally necessary. For bulk use, where the production of dust may be significant, avoid breathing dust by wearing the following AS 1716 approved respiratory protection:

Disposable or Half Face Mask Class L or M

Skin and eye protection are not normally necessary. Where production of dust may be significant, avoid contact with skin and eye by wearing the following:

Cotton gloves, conforming to AS 2161
Safety spectacles with side shields; conforming to AS 1336 and AS 1337
Protective clothing: overalls or dustcoat recommended.

Implement Good Work Practices to avoid the generation of dust; avoid spillage.

Practice good personal and industrial hygiene: Wash hands with mild soap and water before smoking, eating, drinking or using the toilet.

Flammability

Combustible powder. Dust at sufficient concentration can form explosive mixtures with air. Thermal decomposition at elevated temperatures may release flammable vapours, which may travel considerable distance to ignition source and flash back.

SAFE HANDLING INFORMATION

Storage and Transport

Minimal storage requirements are needed for this product. Store in a cool, dry and dark place. Keep away from children. Keep away from foodstuffs. Cartridges should be kept closed and airtight when not in use. Store below 35°C to prevent caking.

| | |
|--------------------------------------|--------------------------------|
| UN Number: | Free |
| Dangerous Goods Class: | None allocated |
| Subsidiary Risk: | None allocated |
| IATA Class: | Free |
| Emergency Transport Procedure Guide: | Not relevant |
| Incompatible Substances: | Strong oxidising agents |
| Incompatible Receptacles: | None known |
| Reactivity: | Not an oxidiser, not explosive |

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Spills and Disposal

In case of accidental spillage, wear personal protection as indicated above. Clean up promptly using a vacuum cleaner **and to avoid dust generation do not sweep dry (where applicable)**. Wash down with water/detergent and absorb in inert material. Deposit in a suitable container. Minor quantities may be disposed of in industrial waste. Dispose of major quantities according to State Regulations for the disposal of chemical waste by landfill or incineration.

Fire / Explosion Hazard

| | |
|--------------------------------|---|
| Hazchem Code: | None allocated |
| Extinguishing media: | Water mist, dry chemical, foam If fire is in the machine, treat as an electric fire, do not use water or foam |
| Upper/Lower explosion limits: | Not known |
| Dust explosion hazard: | Avoid dusting. Dust explosion risk. |
| Hazardous combustion products: | Thermal decomposition products may be toxic: Carbon monoxide, carbon dioxide and other toxic fumes and smoke. Wear self-contained breathing apparatus and full protective equipment in case of fire. |

OTHER INFORMATION

Environmental Data

Not tested, but is not considered a significant environmental hazard.

Follow Good Working Practice

A copy of this Material Safety Data Sheet should be readily accessible to all employees.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal requirements. Handle with care, avoid ingestion, inhalation, eye or skin contact.

Wash hands thoroughly after handling and before eating, drinking or smoking.

The above information is believed to be accurate and represents the best information currently available to Konica Corporation. However, Konica Corporation makes no warranty with respect to such information and Konica Corporation assumes no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

CONTACT POINT

For further information please contact:

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