

Revision Date: 28-May-2021

Issuing Date: 12-Sep-2013

Revision Number: 4.1

Product Name: TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M,
TN-426M, TN-431M, TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M,
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TN-476M, TN-491M, TN-493M, TN-499M, TN-910M Toner

Safety data sheet number: MT413-02

1. Identification

Product identifier

Product Name TN-411M, TN-413M, TN-416M, TN-419M, TN-421M, TN-423M, TN-426M, TN-431M,
TN-433M, TN-436M, TN-439M, TN-441M, TN-443M, TN-446M, TN-449M, TN-451M,
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TN-493M, TN-499M, TN-910M Toner

Other means of identification

Safety data sheet number MT413-02

Recommended use of the chemical and restrictions on use

Recommended Use These products are magenta toner in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers. The cartridge should be used as supplied by Brother and for use in the products stated. Information provided on this SDS is only consistent with the use specified by Brother.

Uses advised against No information available

Details of manufacturer or importer

Manufacturer

Brother Industries, Ltd.
15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan
Telephone (for information): +81-52-824-2735

Importer

Brother International (Aust.) Pty. Ltd.
ACN 001 393 835 Unit 2/51 Eastern Creek Drive Eastern Creek, NSW 2766, Australia
Telephone (for information): +61-2-9887-4344

For further information, please contact

Contact Point Product Safety Department

E-mail address sds.info@brother.co.jp

Emergency telephone number

Emergency telephone number CHEMTREC +61-290372994 (Australia)
CHEMTREC +1-703-527-3887 (International)
Poisons Information Center, New Zealand: 0800 764 766 (0800 POISON)

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2. Hazard(s) identification

GHS Classification

Not classified

Label elements

Not classified

Hazard statements

Not classified

Other hazards which do not result in classification

May be harmful if swallowed

General Hazards No information available

3. Composition/information on ingredients

Substance

Not applicable

Mixture

| Chemical name | CAS No | Weight-% |
|-----------------------------|-------------|----------|
| Styrene-acrylate-copolymer | 25767-47-9 | 75-85 |
| Fatty acid ester | ** | 5-14 |
| Pigment | ** | 3-10 |
| Styrene-acrylate Resin | ** | 1-3 |
| Silicon dioxide (amorphous) | 112945-52-5 | 1-3 |
| PMMA | 9011-14-7 | 1-3 |
| Silicon dioxide (amorphous) | 844491-94-7 | <2 |

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4. First-aid measures

Description of first aid measures

| | |
|-----------------------------------|---|
| General advice | If symptoms persist, call a physician. |
| Emergency telephone number | Poisons Information Center, Australia: 13 11 26 Poisons Information Center, New Zealand: 0800 764 766 |
| Inhalation | Remove to fresh air. Get immediate medical advice/attention. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact: | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. |
| Ingestion | Rinse mouth immediately and drink plenty of water. Get immediate medical advice/attention. |

Most important symptoms and effects, both acute and delayed

| | |
|-----------------|---|
| Symptoms | Inhalation (dust) : For large quantities: May cause irritation to the respiratory system. Increased difficulty in breathing. Sneezing. Coughing Eye contact: May cause eye irritation Skin contact: : Repeated and/or prolonged skin contact may cause irritation Ingestion: May cause stomach ache. Unlikely route of exposure |
|-----------------|---|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|---------------------------|------------------------|

5. Fire-fighting measures

Suitable Extinguishing Media

| | |
|-------------------------------------|---|
| Suitable Extinguishing Media | Dry chemical, CO ₂ , water spray or regular foam |
|-------------------------------------|---|

| | |
|---------------------------------------|-----------------------|
| Unsuitable extinguishing media | Do not use water jet. |
|---------------------------------------|-----------------------|

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Specific hazards arising from the chemical May form explosive dust clouds in air

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Do not use high-pressure water in order to prevent creating a dust cloud and spreading fire dust. Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Sweep the spilt toner or remove it with a vacuum cleaner and transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during cleanup. If a vacuum cleaner is used, the motor must be rated as dust explosion proof. Potential for very fine particles to be taken into the vacuum only to be passed back into the environment due to pore size in the bag or filter.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections See section 8 for more information. See section 13 for more information.

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7. Handling and storage

Precautions for safe handling

Advice on safe handling Keep out of the reach of children. Avoid generation of dust. Avoid inhalation of high concentrations of dust. Avoid contact with eyes.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from oxidizing agents.

Strong oxidizing agents

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Appropriate engineering controls

Engineering controls Good general ventilation should be sufficient under normal use.

Individual protection measures, such as personal protective equipment

Eye/face protection If there is a risk of contact: Safety goggles.

Skin and body protection If there is a risk of contact: Apron, Boots

Hand protection If there is a risk of contact: Protective gloves.

Respiratory protection Use appropriate respiratory protection.

Environmental exposure controls Avoid release to the environment.

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9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|----------------|--------------------------|
| Physical state | Powder |
| Appearance | No information available |
| Color | magenta |
| Odor | Odorless. |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|---|
| pH | Not applicable | None known |
| pH (as aqueous solution) | Not applicable | |
| Melting point / freezing point | No data available | None known |
| Boiling point / boiling range | Not applicable | None known |
| Flash point | No data available | None known |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability limit: | No data available | |
| Lower flammability limit: | No data available | |
| Vapor pressure | No data available | None known |
| Vapor density | No data available | None known |
| Relative density | No data available | None known |
| Water solubility | Insoluble in water | |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | Not applicable | None known |
| Dynamic viscosity | Not applicable | None known |
| Explosive properties | No information available | Explosive limits of toner particles suspended in air approximately equal to that of coal dust |
| Oxidizing properties | No information available | |
| <u>Other Information</u> | | |
| Softening point | No information available | |
| Molecular weight | No information available | |
| VOC Content (%) | No information available | |
| Liquid Density | No information available | |
| Bulk density | No information available | |

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10. Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid Keep away from heat. Avoid friction, sparks, or other means of ignition.

Incompatible materials

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products Carbon oxides, Nitrogen oxides (NOx)

11. Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation Acute LC₅₀ > 5.20 mg/l/4h (OECD 436 method)

Eye contact No information available

Skin contact: No information available

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Ingestion Acute LD₅₀ > 2000 mg/kg (OECD 420 method)

Symptoms No information available.

Numerical measures of toxicity - Product Information

No information available

Unknown acute toxicity

98 % of the mixture consists of ingredient(s) of unknown toxicity

98 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

98 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------------------|----------------------|-------------|-----------------|
| Silicon dioxide (amorphous) | = 3160 mg/kg (Rat) | - | - |

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Non-irritant (OECD 404 method)

Serious eye damage/eye irritation Minimal irritant to the eye (OECD 405 method)

Respiratory or skin sensitization It is not a skin sensitizer (OECD 429 method)

Germ cell mutagenicity AMES test : Negative (OECD 471 method)

Carcinogenicity Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

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Potential health effects

Eye : May cause slight irritation

Skin : Prolonged exposure may cause skin irritation

Ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Inhalation : Not an expected route of exposure Over exposure may cause respiratory irritation.

12. Ecological information

Ecotoxicity

Ecotoxicity

The environmental impact of this product has not been fully investigated

Unknown aquatic toxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability

Persistence and degradability

No information available.

Bioaccumulative potential

Bioaccumulation

No information available.

Mobility

Mobility in soil

No information available.

Other adverse effects

Other adverse effects

No information available.

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13. Disposal considerations

Waste treatment methods

Waste from residues/unused products

Do not put toner or toner cartridges into a fire, this can cause fire to spread with the risk of causing burn injuries. Shred toner cartridges in a dust/explosion controlled environment. Finely dispersed particles may form explosive mixtures in the air. Dispose of in accordance with Federal, State, and local regulations.

14. Transport information

ADG Not regulated

IATA Not regulated

IMDG Not regulated

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

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National Regulations

Australia

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

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International Inventories

| | |
|----------------------|----------|
| TSCA | Complies |
| DSL/NDL | Exempt |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Exempt |
| AICS | Complies |

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. Other information

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Revision Note

SDS sections updated : 1

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | ** | Trade secret |
| C | Carcinogen | | |

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Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian Industrial Chemicals Introduction Scheme (AICIS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet