

Revision Date: 24-Mar-2022

Issuing Date: 14-Sep-2007

Revision Number: 6.1

Safety data sheet number: PT462-08

Product Name: TN-330, TN-360, TN-2110, TN-2120, TN-2130, TN-2150, TN-2115,

TN-2125, TN-2135, TN-2175 Toner

1. Identification

Product identifier

Product Name TN-330, TN-360, TN-2110, TN-2120, TN-2130, TN-2150, TN-2115, TN-2125, TN-2135, TN-

2175 Toner

Other means of identification

Safety data sheet number PT462-08

Recommended use of the chemical and restrictions on use

Recommended UseThese products are black toner in a cartridge for Brother Industries, Ltd. laser printers,

multifunction devices and fax receivers. This 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)

The National Poisons Centre, 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

General Hazards This product contains no substance considered to be persistent, bioaccumulating nor toxic

(PBT).

This product contains no substance considered to be very persistent nor very

bioaccumulating (vPvB).

3. Composition/information on ingredients

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%
Styrene-acrylate-copolymer	25767-47-9	80-90
Carbon Black (bound)	1333-86-4	5-7
Fatty acid ester	**	4-6
PMMA	9011-14-7	0.5-1.5
Silicon Dioxide (amorphous)	7631-86-9	<1

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4. First-aid measures

Description of first aid measures

General advice If symptoms persist, call a physician.



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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 Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of

water to drink.

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, CO₂, water spray or regular foam

Unsuitable extinguishing media Do not use water jet.

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.

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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.

Environmental precautions

Environmental precautions Prevent substance entering sewers. Washings must be prevented from entering surface

water drains.

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.

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.

Incompatible materials Strong oxidizing agents

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8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	Australia	ACGIH TLV	
Carbon Black (bound) 1333-86-4	3 mg/m ³	TWA: 3 mg/m³ inhalable particulate matter	
Silicon Dioxide (amorphous) 7631-86-9	2 mg/m ³		

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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Powder

Appearance

black

Color Odor Odorless.

Odor threshold No information available

Property Values Remarks • Method

Not applicable pН pH (as aqueous solution) Not applicable Melting point / freezing point 110 °C Not applicable Boiling point / boiling range No data available Flash point

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Evaporation rate No data available Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability limit: No data available

Lower flammability limit: 40 g/m³

Vapor pressure No data available Vapor density No data available

Relative density 1.15

Water solubility Insoluble in water

Solubility(ies)No data availablePartition coefficientNo data availableAutoignition temperatureNo data availableDecomposition temperatureNo data available

Kinematic viscosity

Not applicable

Not applicable

Not applicable

Explosive properties No information available Explosive limits of toner particles suspended in air

approximately equal to that of coal dust

None known

 $(H_2O=1)$

None known

None known

None known

None known

Oxidizing properties No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Liquid Density
Bulk density
No information available
No information available
No information available
No information available

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 No information available.

Conditions to avoid

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

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Incompatible materials

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NOx)

11. Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation Acute $LC_{50} > 5.15 \text{ mg/l}$ (OECD 403 method)

Eye contact No information available

Skin contact: No information available

Ingestion Acute LD₅₀ > 2000 mg/kg (OECD 423 method)

Symptoms No information available.

Numerical measures of toxicity - Product Information

No information available

Unknown acute toxicity

99.1 % of the mixture consists of ingredient(s) of unknown toxicity

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Carbon Black (bound)	> 15400 mg/kg (Rat)	-	> 4.6 mg/m ³ (Rat) 4 h	
Silicon Dioxide (amorphous)	= 7900 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 58.8 mg/L (Rat)4 h	

See section 16 for terms and abbreviations



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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 Slight 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 Carbon Black: In 1996, the IARC re-evaluated 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 preparation containing carbon black demonstrated no association

between toner exposure and tumor development in rats.

Other 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 exposureNo information available.

Aspiration hazard No information available.

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.



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12. Ecological information

Ecotoxicity

Ecotoxicity

Unknown aquatic toxicity

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

environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Silicon Dioxide	EC50: =440mg/L (72h,	LC50: =5000mg/L (96h,	-	EC50: =7600mg/L (48h,
(amorphous)	Pseudokirchneriella	Brachydanio rerio)		Ceriodaphnia dubia)
	subcapitata)			

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.

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.

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14. Transport information

ADG Not regulated

<u>IATA</u> 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

<u>Australia</u>

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

International Inventories

TSCA Complies DSL/NDSL Exempt **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS** Complies AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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



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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

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



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Disclaimer

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End of Safety Data Sheet