

Revision date: 03-Aug-2023

Issuing Date: 09-Nov-2022

Revision Number: 3

Product Name: TN830, TN830XL, TN835, TN830R, TN830V, TN830W, TN830XLW, TN17, TN860, TN860XL, TN860XXL, TN2510, TN2510XL, TN2510XXL, TN2515P, TN2590, TN2590XL, TN2590XXL, TN2590XXLP, TN2540, TN2540XL, TN16, TN16P, TN2560, TN2560XL, TN2560XXL, TN2570, TN2570XL, TN2570XXL, TN2500, TN2500XL, TN2500XXL, TN2530, TN2530XL, TN2530XXL, TN2520, TN2520XL, TN2550, TN2550XL, TN2550XXL, TNB026, TNB027, TNB028, TNB029 toner; DRB026, DRB027, DRB028, DRB029 Drum unit toner

Safety data sheet number: BES-02

## 1. IDENTIFICATION

### Product identifier

**Product Name** TN830, TN830XL, TN835, TN830R, TN830V, TN830W, TN830XLW, TN17, TN860, TN860XL, TN860XXL, TN2510, TN2510XL, TN2510XXL, TN2515P, TN2590, TN2590XL, TN2590XXL, TN2590XXLP, TN2540, TN2540XL, TN16, TN16P, TN2560, TN2560XL, TN2560XXL, TN2570, TN2570XL, TN2570XXL, TN2500, TN2500XL, TN2500XXL, TN2530, TN2530XL, TN2530XXL, TN2520, TN2520XL, TN2550, TN2550XL, TN2550XXL, TNB026, TNB027, TNB028, TNB029 toner; DRB026, DRB027, DRB028, DRB029 Drum unit toner

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended use** These products are black 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 the supplier of the safety data sheet

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

**Supplier Address** Brother International Corporation  
200 Crossing Boulevard, Bridgewater, NJ 08807, USA  
Telephone (for information): +1-877-276-8437

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

### Emergency telephone number

**Emergency Telephone** CHEMTREC +1-800-424-9300 (North America)

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## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance**  
**Physical state** Powder **Odor:** Odorless

### Other Information

#### **Unknown acute toxicity**

100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%	Trade secret
Polyester resin	**	75-90	*
Carbon Black (bound)	1333-86-4	3-10	*

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Other Components	-	**	*
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\*The exact percentage (concentration) of composition has been withheld as a trade secret.

Trade secret

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>General advice</b>	If symptoms persist, call a physician.
<b>Inhalation</b>	Remove to fresh air. Get immediate medical advice/attention.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact:</b>	Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Get immediate medical advice/attention.

##### Most important symptoms and effects, both acute and delayed

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

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<b>Unsuitable extinguishing media</b>	Do not use water jet.

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**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.  
May form explosive dust clouds in air

#### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**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 protective equipment as required.

### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

### 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

**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.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **Exposure Limits**

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Carbon Black (bound) 1333-86-4	TWA: 3 mg/m <sup>3</sup> inhalable particulate matter	TWA: 3.5 mg/m <sup>3</sup> (vacated) TWA: 3.5 mg/m <sup>3</sup>	IDLH: 1750 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

### 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.

#### **Hand protection**

If there is a risk of contact: Protective gloves.

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<b>Skin and body protection</b>	If there is a risk of contact:, Apron, Boots
<b>Respiratory protection</b>	Use appropriate respiratory protection.
<b>Environmental exposure controls</b>	Avoid release to the environment.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### Appearance

Physical state	Powder
Color	black
Odor	Odorless
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
pH (as aqueous solution)	Not applicable	
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	1.2	(H <sub>2</sub> O=1)
Water solubility	Insoluble in water	
Solubility(ies)	partially soluble ( Toluene , Chloroform and tetrahydrofuran )	None known
Partition coefficient	No information available	None known
Autoignition temperature	No information available	None known
Hyphen	No data available	None known
Kinematic viscosity	Not applicable	None known
Dynamic viscosity		None known
Explosive properties	No information available	Explosive limits of toner particles suspended in air

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**Oxidizing properties** No information available approximately equal to that of coal dust

**Other information**

**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

**10. STABILITY AND REACTIVITY**

**Reactivity** No information available  
**Chemical stability** Stable under normal conditions.  
**Possibility of hazardous reactions** None under normal processing.  
**Conditions to avoid** Keep away from heat. Avoid friction, sparks, or other means of ignition.  
**Incompatible materials** Strong oxidizing agents  
**Hazardous decomposition products** Carbon oxides, Nitrogen oxides (NOx)

**11. TOXICOLOGICAL INFORMATION**

**Product Information**

**Inhalation** Acute LC<sub>50</sub> (4-hr) > 5.66 mg/l (OECD 436 method)  
**Eye contact** No information available  
**Skin contact:** No information available  
**Ingestion** Acute LD<sub>50</sub> > 5000 mg/kg (OECD 423 method)

**Skin corrosion/irritation** Non-irritant (OECD 404 method)  
**Serious eye damage/irritation** Non-irritant (OECD 437 method)

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**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

**STOT - single exposure** No information available.

**STOT - repeated exposure** No 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.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** The environmental impact of this product has not been fully investigated

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.



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**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal 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.

**Contaminated packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

## 15. REGULATORY INFORMATION

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## International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Exempt
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Exempt
<b>AICS</b>	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

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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**US State Regulations**

**U.S. State Right-to-Know Regulations**

**US State Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Carbon Black (bound) 1333-86-4	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b><u>NFPA</u></b>	Health hazards 0	Flammability 0	Instability 0	<b>Section 9: Physical and chemical properties</b> -
<b><u>HMIS</u></b>	Health hazards 0	Flammability 0	Physical hazards 0	<b>Personal protection</b> X

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Revision Note SDS sections updated : 1

**Disclaimer**

The information relates only to this product. It may not be valid, if used in combination with any other materials or in any other process, and it is based on our best knowledge as of the date of preparation (revision).

**End of Safety Data Sheet**