

Toners Black

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 11/14/2017

Revision date: 11/14/2017

Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form :Konica Minolta TN227
Trade name : Toners Black

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Toner for use in laser printing

1.2.2. Uses advised against

Restrictions on use : No information available

1.3. Details of the supplier of the safety data sheet

Supplier
Address
Postal Code
Phone
FAX

1.4. Emergency telephone number

Emergency number :

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polymer	-	70-80	Not classified
Wax	-	1-10	Not classified
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9;435-640-3	1 - 10	Not classified
Silica, amorphous	(CAS-No.) 7631-86-9 (EC-No.) 231-545-4	1 - 10	Not classified

DL Toners Black

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Wash skin with plenty of water. Get medical advice if necessary.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam.
- Unsuitable extinguishing media : No additional information available.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Nitrogen oxides. fume.

5.3. Advice for firefighters

- Precautionary measures fire : Keep container closed when not in use. Eliminate all ignition sources if safe to do so. Keep container tightly closed and away from heat, sparks and flame. Ensure adequate ventilation, especially in confined areas.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Eliminate every possible source of ignition. Stop leak if safe to do so. Ensure adequate ventilation, especially in confined areas. Spilled material may present a slipping hazard. Wash hands immediately after handling the product.

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage. Do not touch or walk on the spilled product. Move containers from fire area if it can be done without personal risk. Sweep or shovel spills into appropriate container for disposal.
- Methods for cleaning up : Mechanically recover the product.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from sources of ignition - No smoking. Keep only in original container. Wash hands immediately after handling the product.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No information available.

DL Toners Black

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon black (1333-86-4)		
Belgium	Limit value (mg/m ³)	3.5 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	3.5 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	7 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	2 mg/m ³ (dust)
Denmark	Grænseværdie (langvarig) (mg/m ³)	3.5 mg/m ³
Estonia	OEL TWA (mg/m ³)	3 mg/m ³ (dust)
Finland	HTP-arvo (8h) (mg/m ³)	3.5 mg/m ³
Finland	HTP-arvo (15 min)	7 mg/m ³
France	VME (mg/m ³)	3.5 mg/m ³
Greece	OEL TWA (mg/m ³)	3.5 mg/m ³
Greece	OEL STEL (mg/m ³)	7 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	3 mg/m ³ (inhalable fraction)
Ireland	OEL (15 min ref) (mg/m ³)	15 mg/m ³ (calculated-inhalable fraction)
Poland	NDS (mg/m ³)	4 mg/m ³ (applies to Carbon black containing Benzo(a)pyrene < 35 mg in 1 kg of Carbon black-total inhalable dust)
Portugal	OEL TWA (mg/m ³)	3.5 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	2 mg/m ³ (respirable fraction, 5% or less fibrogenic component) 10 mg/m ³ (respirable fraction, greater than 5% fibrogenic component) 10 mg/m ³ (total aerosol)
Spain	VLA-ED (mg/m ³)	3.5 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³ (total dust)
United Kingdom	WEL TWA (mg/m ³)	3.5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	7 mg/m ³
Norway	Grenseverdier (AN) (mg/m ³)	3.5 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	7 mg/m ³ (value calculated)
Australia	TWA (mg/m ³)	3 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	3.5 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ (inhalable particulate matter)
USA - IDLH	US IDLH (mg/m ³)	1750 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	3.5 mg/m ³ 0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	3.5 mg/m ³
Silica, amorphous (7631-86-9)		
Austria	MAK (mg/m ³)	4 mg/m ³ (also Silica manufactured through wet process-inhalable fraction)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0.1 mg/m ³ (respirable fraction) 4 mg/m ³
Estonia	OEL TWA (mg/m ³)	2 mg/m ³ (respirable dust)
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	4 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Ireland	OEL (8 hours ref) (mg/m ³)	6 mg/m ³ (total inhalable dust) 2.4 mg/m ³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m ³)	18 mg/m ³ (calculated-total inhalable dust) 7.2 mg/m ³ (calculated-respirable dust)
Latvia	OEL TWA (mg/m ³)	1 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	4 mg/m ³ (total aerosol)
Slovenia	OEL TWA (mg/m ³)	0.3 mg/m ³ (respirable fraction, fume)

DL Toners Black

Safety Data Sheet

according to Regulation (EU) 2015/830

Silica, amorphous (7631-86-9)		
United Kingdom	WEL TWA (mg/m ³)	6 mg/m ³ (inhalable dust) 2.4 mg/m ³ (respirable dust)
United Kingdom	WEL STEL (mg/m ³)	18 mg/m ³ (calculated-inhalable dust) 7.2 mg/m ³ (calculated-respirable dust)
Russian Federation	OEL TWA (mg/m ³)	1 mg/m ³ (containing >60% Silicon dioxide-condensation aerosol, total mass of aerosols) 2 mg/m ³ (containing 10-60% Silicon dioxide-condensation aerosol, total mass of aerosols) 1 mg/m ³ (also vitreous-disintegration aerosol, total mass of aerosols)
Norway	Grønseverdier (AN) (mg/m ³)	1.5 mg/m ³ (respirable dust)
Norway	Grønseverdier (Korttidsverdi) (mg/m ³)	1.5 mg/m ³ (value calculated-respirable dust)
Switzerland	MAK (mg/m ³)	4 mg/m ³ (inhalable dust, also manufactured in wet processing)
Australia	TWA (mg/m ³)	2 mg/m ³ (respirable dust)
USA - IDLH	US IDLH (mg/m ³)	3000 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	6 mg/m ³

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Fine black powder.
Colour	: Black.
Odour	: Faint odor.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: ≥ 150 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ca.1
Solubility	: Negligible.
Log Pow	: No data available
Viscosity, kinematic	: Not applicable

DL Toners Black

Safety Data Sheet

according to Regulation (EU) 2015/830

Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Carbon black (1333-86-4)

LD50 oral rat	> 15400 mg/kg
LD50 dermal rabbit	>3000 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Silica, amorphous (7631-86-9)

BCF fish	(no bioaccumulation expected)
----------	-------------------------------

12.4. Mobility in soil

No additional information available

DL Toners Black

Safety Data Sheet

according to Regulation (EU) 2015/830

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

DL Toners Black

Safety Data Sheet

according to Regulation (EU) 2015/830

SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
LD50	Median lethal dose
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product