

Product Name : [RICOH TONER BLACK MP W7140 \(Black toner\)](#) MSDS Number : [821021](#)



Date Prepared : [31/07/2008](#) Date Modified : [10/07/2017](#) Date : [03/10/2017](#)

Safety Data Sheet (ISO form)

1.Product and Company Identification

Product Name : [RICOH TONER BLACK MP W7140 \(Black toner\)](#)
 General Use : [The Image Formation of Printing Machine or Copier](#)
 MSDS Number : [821021](#)
 Company Name : [Ricoh Company,Ltd.](#)
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2.Compo r egulation (EC) No 1272/2008 sition/Information on Ingredients

Substance or Preparation

[Preparation](#)

Chemical Nature

Ingredients	Chemical Formula	CAS.No.	Contents(%)
Polyester Resin	Confidential	Confidential	50-80
Styrene-acrylic Resin	Confidential	Confidential	10-40
Carbon Black	C	1333-86-4	<15
Wax	Not Identified	8015-86-9	<5
Organic Salt	Confidential	Confidential	<5

[This product does not contain any of the following substances as ingredients.](#)

[Cadmium, Hexavalent Chromium, Mercury, Lead, Polybrominated biphenyls \(PBB\), Polybrominated diphenyl ethers \(PBDE\), SVHC \(substances of very high concern: published by ECHA\).](#)

[And if it contains any impurities, it does not exceed any of the thresholds of RoHS.](#)

Hazardous Ingredients Information

Chemical Name : [Carbon Black](#)

CAS Number : [1333-86-4](#)

OSHA Z-Tables (USA) : [3.5mg/m3](#)

NTP (USA) : [Not listed](#)

Symbol (EU) : [Not listed](#)

DFG-MAK : [III 3B](#)

California Proposition 65 (USA) : [Listed](#)

EEC Number : [215-609-9](#)

ACGIH-TLV : [3.5mg/m3](#)

IARC Monographs : [Group 2B](#)

R-Phrase (EU) : [Not listed](#)

OELs-TWA (Australia) : [3.0mg/m3](#)

3.Hazards Identification

The Most Important Hazards

Adverse Human Health Effects

[There are no significant hazards expected with intended use.](#)

Environmental Effects

[There are no significant hazards expected with intended use.](#)

Physical and Chemical Hazards

[There are no significant hazards expected with intended use.](#)

Specific Hazards

[Dust explosion \(like most finely grained organic powders\)](#)

Main Symptoms

Acute Inhalation Toxicity

Exposure to excessive amount of dust may cause physical irritation to respiratory tract.

Acute Oral Toxicity

Low acute toxicity in animal experiment.

Acute Eye Irritation

May cause slight transient irritation.

Acute Skin Irritation

May be non-irritant.

Sensitization

From test no apparent significant hazards are expected . (Only few cases reported on incidental allergy-related conjunctivitis or dermatitis.)

Chronic Effect

Slight pulmonary fibrosis has been reported in rats upon chronic inhalation exposure to a toner at 4mg/m³ every day for 2 years. No pulmonary change was found at 1mg/m³. These findings show that exposure to excessive amounts of powder may cause damage to lungs. However, normal use and handling of this product as intended, does not result in inhalation of excessive amounts of powder.

Carcinogenicity

Carbon black contained in this product is classified to Group 2B of IARC as the result of inhalation test in use of rat.

But oral/skin test does not show carcinogenicity.

The toner containing carbon black did not show carcinogenicity in chronic inhalation exposure test in use of rat.

The Classification of The Chemical Product

This preparation is not classified as dangerous according to Regulation (EC) No 1272/2008.

4.First-Aid Measures

Inhalation

Remove from exposure into fresh air and rinse mouth with water. Seek medical advice.

Skin Contact

Wash thoroughly with soapy water.

Eye Contact

Flush with a large amount of water until particles are removed. Seek medical advice.

Ingestion

Drink several glasses of water to dilute ingested toner. Seek medical advice.

Notes to a physician

Not applicable

5.Fire-Fighting Measures

Extinguishing Media

CO₂,dry chemicals,foam or water.

Extinguishing Media to Avoid

Not applicable.

Specific Hazards

Can form explosive dust-air mixtures when finely dispersed in air.

Specific Method

No special fire protecting method is required. Sprinkling or fire extinguishers can be used.

Protection of Fire-fighters

Wear gloves, glasses, a mask if necessary.

6.Accidental Release Measures

Personal Precautions

Do not breathe in dust.

Environment Precautions

Do not flush into sewers or watercourses.

Methods for Cleaning Up

Fine powder may form explosive dust-air mixture. Confirm there is no source of fire and if there is a source, remove it. Sweep up spilled powder slowly and clean remainder with wet cloth. If a vacuum cleaner is used, a dust explosion-proof type must be chosen.

7.Handling and Storage

Handling

Technical Measures/Precautions

Not applicable

Safe Handling Advice

Do not handle in areas where there is wind or draught, this may cause dust to get into eyes.

Avoid breathing in dust.

Storage

Technical Measures

Not applicable

Storage Conditions

Keep out of reach of children.

Store in dry, well-ventilated area, to maintain quality the temperature should not exceed 35degrees centigrade for a long time. Avoid direct sunlight.

Packaging Material

Not applicable

Specific Use(s)

Image formation in printing machines or copiers.

8.Exposure Controls/Personal Protection

Technical Measures

Use adequate ventilation. None required with intended use.

Control Parameters

USA OSHA PEL (TWA) : 15mg/m³ (Total dust) 5.0mg/m³ (Respirable fraction)

ACGIH TLV (TWA) : 10mg/m³ (Inhalable fraction) 3.0mg/m³ (Respirable fraction)

DFG MAK : 4.0mg/m³ (Total dust) 1.5mg/m³ (Respirable fraction)

Personal Protection

Respiratory Protections

None required in normal use. If the limit of exposure concentration is exceeded, use authorised respirator.

Hand Protection

Use vinyl or rubber gloves if necessary.

Eye Protection

Put on goggles if necessary.

Skin and Body Protection

Wear chemical-resistant apron or other impervious clothing if necessary.

Hygiene Measures

Wash hands after handling.

9.Physical and Chemical Properties

Appearance

Physical State : Solid

Form : Powder

Colour : Black

Odour : Slightly plastic odour

Information

pH : Not applicable

Specific Temperatures/Temperature Ranges at Which Changes in Physical State Occur

Boiling Point (degrees centigrade) : Not applicable

Melting Point (degrees centigrade) : (Softening point) Approx.110

Decomposition Temperature (degrees centigrade) : Not available

Flash Point (degrees centigrade) : Not applicable

Explosion Properties (degrees centigrade) : This product is considered a nonexplosive material under normal use.

Vapor Pressure (Pa) : Not applicable

Vapor Density(AIR=1) : Not applicable

Density (g/cm3) : Approx.1.2 Measuring Temp (degrees centigrade) : 25

Solubility

Water Solubility (g/L) : Insoluble

Chloroform Solubility (g/L) : Slightly soluble

Octanol/Water Partition Coefficient

Not available

Other Information

Flammability : Not flammable

Viscosity (Pa · s) : Not applicable

Volatile (%) : 0.2 or below

10.Stability and Reactivity

Stability

Stable

Hazardous Reaction

Dust explosion, like most finely grained organic powders.

Conditions to Avoid

Not applicable in normal use.

Materials to Avoid

Not applicable in normal use.

Hazardous Decomposition Products

Decomposition products will not occur.

11.Toxicological Information

Acute Toxicity

Acute Oral Toxicity (LD50) :

5000 or over [mg/kg] (Rat)

Acute Dermal Toxicity :

Not available

Acute Inhalation Toxicity :

Not available

Local effects

Acute Skin Irritation(PII) :

Non-irritant (Rabbit)

Acute Eye Irritation :

Not available (Ingredients are not classified as dangerous according to Regulation (EC) No 1272/2008.)

Sensitization

Acute Allergenic Effects :

0 % (Marmot)

Specific Effects

Carcinogenicity :

Carbon black contained in this product is classified to Group 2B of IARC as the result of inhalation test in use of rat.

But oral/skin test does not show carcinogenicity.

The toner containing carbon black did not show carcinogenicity in chronic inhalation exposure test in use of rat.

Mutagenicity : Negative (Ames test)

Reproduction Toxicity : Does not contain substances listed as hazardous to reproductive health.

12.Ecological Information

Mobility : No data are available on any adverse effects on the environment.

Persistence/Degradability : Not available

Bioaccumulation : Not available

Ecotoxicity

Acute Toxicity for Fish (LC50) : Not classified as toxic (Regulation (EC) No 1272/2008).mg/l/96hr

Acute Toxicity for Daphnia (EC50) : Not classified as toxic (Regulation (EC) No 1272/2008).mg/l/48hr

Algae Inhibition Test (IC50) : Not classified as toxic (Regulation (EC) No 1272/2008).mg/l/72hr

13.Disposal Consideration

General information:

Dispose of waste and residues in accordance with local authority requirements.

Disposal methods:

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Confirm disposal procedures with local regulations.

Precautions:

Do not throw the toner cartridge or toner into an open flame. Hot toner may scatter and cause burns or other damage.

14.Transport Information

International Regulations

Land Transport

RID/ADR : Not applicable

DOT 49 CFR : Not applicable

ADNR : Not applicable

Sea Transport

IMDG Code : Not applicable

Air Transport

ICAO-TI/IATA-DGR : Not applicable

The UN Classification Number : [Not applicable](#)
 Class : [Not applicable](#)
 Specific Precautionary Transport Measures and conditions
[Avoid direct sunlight in quality.](#)

15.Regulatory Information

Regulations

EU Information

Information on the label (Regulation (EC) No 1272/2008)

Symbols & : [Not required](#)

Indications

R-Phrase : [Not required](#)

S-Phrase : [Not required](#)

Special Precautions under Regulation (EC) No 1272/2008 Annex II : [Not required](#)

Regulation (EC) No 1907/2006 annex XVII

[This product complies with applicable rules and regulations under Regulation \(EC\) No 1907/2006 annex XVII.](#)

304/2003/EC

[Not regulated](#)

US Information

Information on the label : [Not required](#)

TSCA (Toxic Substances Control Act) :

[This toner complies with all applicable rules and regulations under TSCA.](#)

SARA Title III

313 Reportable Ingredients : [Not regulated](#)

California Proposition 65 : [Not regulated](#)

Canada Information

WHMIS Controlled product : [Not a controlled product](#)

16.Other Information

NFPA Hazard Rating: National Fire Protection Agency (USA)

Health ; [1](#), Flammability ; [1](#), Reactivity ; [0](#)

HMIS Rating : The National Paint and Coating Association (USA)

Health ; [1](#), Flammability ; [1](#), Reactivity ; [0](#)

Literature References :

ANSI Z400.1-1993

ISO 11014-1

IARC (1996) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds", Lyon, pp149-261

H. Muhle, B. Bellman, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J.C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka and R. Mermelstein(1991) "Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats" Fundamental and Applied Toxicology 17, pp 280-299

IARC (2008) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93" NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

ACGIH-TLV : Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices

OSHA Z-Tables : US Department of Labor, 29CFR Part 1910 , Tables Z-1, Z-2, and Z-3

NTP (USA) : US Department of Health and Human Services National Toxicology Program Annual Report on Carcinogens

DFG-MAK : DFG List of MAK and BAT Value

Symbol (EC) : Regulation (EC)No.1272/2008

91/155/ EEC	: EU Directive 91/155/ EEC
1272/2008	: Regulation (EC) No 1272/2008
CLP (EC)No.1272/2008	: Regulation (EC)No.1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures,amending and repealing Directive Regulation (EC) No 1272/2008, and amending Regulation (EC)No. 1907/2006
EC 304/2003	: Regulation (EC) No 304/2003 of the European Parliament and of the Council of 28 January 2003 concerning the export and import of dangerous chemicals
WHMIS Controlled product	: Canada Workplace Hazardous Information System
OELs-TWA (Australia)	: Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 3008 (1995)]

Abbreviations :

OSHA PEL	PEL (Permissible Exposure Limit) under Occupational Safety and Health Act
ACGIH-TLV	TLV (Threshold Limit Values) under American Conference of Governmental Industrial Hygienists
REACH	(EC)No.1907/2006:Council Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
SVHC	Substances of Very High Concern
ECHA	The European Chemicals Agency
DFG-MAK	MAK (Maximale Arbeitsplatz Konzentrationen) by Deutsche Forschungs Gemeinschaft
RoHS	Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
WHMIS	Workplace Hazardous Information System
NOHSC	National Occupational Health and Safety Commission Act 1985

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