

# Safety Information

According to Regulation (EC) No 1907/2006 (REACH)



Trade name : **Lyreco** **No. 6.476.708**  
**Toner cartridge for Samsung**  
**Samsung ML-3470**

Revision date : 01.07.2010 Version : 3

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## 01. Identification of the substance/ preparation and of the company/ undertaking

### 1.1 Trade name

**Lyreco** **Toner cartridge for Samsung**  
**Samsung ML-3470**

### 1.2 Identified uses

Common industrial, commercial or private use of typographic products in order to print on paper

#### Uses advised against

Not known

### 1.3 Company / undertaking identification

Lyreco

#### Address (street) / ZIP Code

Rue du 19 mars 1962, F-59770

#### Country / City

France, Marly

#### Telephone / E-mail

+33 (0) 3 27 23 64 00 / msds@lyreco.com

### 1.4 Emergency telephone

+33 (0) 3 27 23 64 00

This number is serviced during office hours only.

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## 02. Hazards identification

### Classification

This product does not require labelling in accordance with the guideline 1999/45/EC and guideline 67/548/EC.

This preparation is not classified as dangerous using the parameters for assessment according to Directive 67/548/EWG or 1999/45/EG. In case of exposure to air, dust explosion is possible. No particular hazards known.

### Information pertaining to special danger for human health and the environment.

#### Adverse human health hazards and effects:

Ingestion: May cause irritation of the mucous membranes or digestive tract  
Inhalation: Inhalation of toner could cause respiratory irritation, but considered a low hazard.  
Eye contact: May cause irritation  
Skin contact: Repeated contact may cause irritation or an allergic skin reaction.  
Carcinogenicity: Not carcinogenic.

#### Adverse environmental effects

No hazards known

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## 03. Composition / Information on ingredients

### Chemical characterization

This cartridge contains new and remanufactured parts including a light sensitive drum and toner. The following data applies only to the toner substance:

Chemical description	CAS-No.	Reach-No.	Value (%)	R+S - Phrase	Symbol
Polyester Copolymer	No Open	*	75-85	N/A	N/A
Carbon Black	1333-86-4	*	1-10	N/A	N/A
Ethylene propylene Wax	9010-79-1	*	1-5	N/A	N/A
CCA	31714-55-3	*	1-5	N/A	N/A
Fumed Silica	68909-20-6	*	1-5	N/A	N/A

### N/A = not applicable

The substances do not contain any hazardous ingredients in this category.

The following data applies only to the drum unit:

Chemical description	CAS-No.	Reach-No.	Value (%)	R+S - Phrase	Symbol
Substance:					
Aluminium cylinder:		*	>99	not applicable	not applicable
Coating:					
Organic photo conductor:		*	<1	not applicable	not applicable

Further substances with exposition limits (not mentioned above)

No relevant substances in this category existing. \* = Not yet established by REACH

### Further hazardous ingredients/ ingredients with regulated limits

Not known

## 04. First aid measures

### General information

In case of indisposition please seek medical advice (if possible show directions for use or safety data sheet if possible).

### Inhalation:

Remove person to fresh air. If symptoms occur consult a physician.

### Skin contact

Flush affected areas thoroughly with water or detergent.

### Eye contact

Immediately flush with large amounts of clean, lukewarm, low-pressure water for at least 15 minutes. If irritation persists, consult a physician especially in case of inflammation, pain or visual problems.

### Ingestion

Rinse mouth with water and drink one or two glasses of water. If symptoms occur consult a physician.

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## 05. Fire fighting measures

### Suitable extinguishing media

Water, foam, CO2, dry chemicals

### Extinguishing media which must not be used for safety reasons

Not known

### Special exposure hazards arising from the substances or preparation, combustion products, resulting gases

Not known

### Additional information

Flash point:	No data available.
Ignition temperature:	No data available.
Flammability:	Non flammable solid according to USA 16 CFR 1500.44 and 84/449/EC 5th adaption.
Flammable limits:	No data available.
Special fire fighting procedure:	No data available.
Unusual fire / explosion hazards:	Toner may cause a dust explosion. Explosive limits of toner particles suspended in air are equal to coal dust

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## 06. Accidental release measures

Toner may cause a dust explosion. Explosive limits of toner particles suspended in air are equal to coal dust. Keep away from excessive heat, sparks and open flames. Please remove toner dust with dust binding measures.

### Personal precautions

Avoid dust exposure. Provide sufficient ventilation with fresh air.

### Environmental precautions

none

### Methods for cleaning up

Clean spilt toner with water, soap or suitable detergent.  
Dispose of the material as covered in section 13 "Disposal considerations".  
Clean smaller amounts (up to 1 l) with copious amounts of water.

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## 07. Handling and storage

### 7.1 **Advices on safe handling**

Avoid ingestion, skin contact, eye contact. Keep container closed.

### Precautions against fire and explosion

Avoid the following: Inhalation, Skin contact, Eye contact. Keep container tightly closed.

### Further information:

Regular maintenance of printer is recommended.

### 7.2 **Storage**

Store in well ventilated areas which are cool, dry and dark.

### Requirements for storage rooms and conditions

Keep out of reach of unauthorized persons. Keep container closed and store at room temperature.

### 7.3 **Further information on storage conditions**

Not known

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## 08. Exposure controls / Personal protection

### Limit values

Specification : Dust concentration according DFG (MAK)  
Values : 6 mg/m<sup>3</sup>

Specification : Inhalable particulate according ACGIH (TWA/TLV)  
Values : 10 mg/m<sup>3</sup>

Specification : Respirable particulate according ACGIH (TWA/TLV)  
Values : 3 mg/m<sup>3</sup>

### Personal protection measures

Personal protection measures are not required under intended use.  
General ventilation should be sufficient under intended use.

### Respiratory, hand, eye, body protection, organisational measures, environmental measures

Not known

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## 09. Physical and chemical properties

### Appearance

Appearance: Powder  
Odour : Slight plastic odour

### Safety relevant basic data

#### Explosion limits:

Lower limit : Not known  
Upper limit : Not known  
Vapour pressure : Not known  
Density : 1,3 -1,8  
Evaporation rate : Not known  
Water solubility : Negligible  
pH-value : Not known  
Boiling point : Not applicable  
Flash point : Not known  
Ignition temperature : Not known  
Melting point : 100-150 °C  
Particule size : 7-12 µm nominal

### Substance group relevant properties

Not known

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## 10. Stability and reactivity

### Conditions to avoid

In general protect against moisture (lump), Toner dust may cause explosions.

### Materials to avoid

Under intended use no hazardous reaction can be expected.

### Hazardous decomposition products

Carbon dioxide, carbon monoxide, carbon

## 11. Toxicological information

### Toxicological tests

#### Toner:

Ingestion:	Not toxic.
Inhalation:	Not toxic.
Skin contact:	Not toxic.
Eye contact	Not toxic.
Chronic toxicity:	No data available
Exposure limit:	Not known.
Ames test:	Negative, no mutagenic potential
Carcinogenicity:	Not carcinogenic
Reproduction toxicity:	Not toxic

#### Drum:

Ingestion:	Not toxic
Inhalation:	Not toxic

### Experiences made in practise, general remarks

Not known

## 12. Ecological information

### Ecotoxicity, persistence and degradability, bio accumulative potential, results of PBT assessment, other adverse effects

Not known

### Mobility

stable

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## 13. Disposal considerations

### Appropriate disposal/ product

Toner Cartridge

### Recommendation

For disposal of the used and empty toner cartridge please contact:

Accutec Deutschland  
Tel: +49 (0) 2324 504 134  
Fax: +49 (0) 2324 504 217  
www.accutec.de

Collections UK  
Phone: +44-1279-401404  
Fax: +44-1279-639099  
www.accutec.de

Collections USA  
Phone: 1-800-282-6650 Ext.110

For further information please contact your local dealer, your local disposal companies or environmental authorities. Please dispose toner waste in accordance with the legislation of non hazardous waste code "Waste from MSU of printing toner".

### Waste code designations according AVV

WASTE FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING - waste from MFSU of printing inks- EWC 080318- - waste printing toner other than those mentioned in 080317

### Packaging classifications

Clean product packaging is required as transport security within the voluntary collection process. This packaging will be disposed / recycled in accordance with the local legislation. Dirty packaging will be disposed in accordance with the waste code as follows 200101- separately collected fractions (except 1501)- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS- paper and cardboard.

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## 14. Transport information

No classification or designation for transport required

The product must be shipped according to ADR, RID, IMDG, and ICAO/IATA regulations.

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## 15. Regulatory information

### Chemical safety assessments

Chemical safety assessments for substances in this preparation were not carried out.

### Designation according to EC regulation

No data available

### Labelling of hazardous symbols contains

#### R- / S- Phrases

No data available

### Other EC regulations

The product is classified according to EC regulation 88/379/EC, 67/548/EC and the respective amendments.

### National regulations

Any national regulations must be observed in addition.

### Restrictions on use

No data available

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## **16. Other information**

### **Further restrictions on use by manufacturer, R+ S Phrases which refer to section 2 and 3**

None

### **Additional information**

The product must not be used except for the purposes named in section 1. The user is responsible for ensuring that all necessary measures to comply with the regulations are taken.

The information contained herein, exclusively describing security advice and requirements, is not confirming legal requirements and / or definitions with regard to this product.

The above information is based on our present-day knowledge. The information is intended to give advice about the safe handling of the product named in this safety data sheet, in respect of storage, processing, transport and disposal. The information relates to this product only and cannot be taken as also being applicable to any other similar product.

### **Revisions compared with last version**

Adaptation of Regulation No. 1907/2006 (REACH)

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