

SECTION 1: Identification of the	substance/mixture and of the	ne company/undertaking
1.1. Product identifier		
Mixture identification:		S015326
Trade name: Trade code:	RIBBON CARTRIDGE C13S015336	S015336
1.2. Relevant identified uses of t		as advised against
Recommended use:		es auviseu agailist
	pact Printing	
1.3. Details of the supplier of the		
Company:	baloty data biloot	
	N EUROPE B.V.	
	uilding, Atlas ArenA, Hoogoordd	reef 5.1101 BA Amsterdam
	ost The Netherlands	
Phone	number: +31-20)-314-5000
Competent person respon	sible for the safety data sheet:	
chemic	cals@epson-europe.com	
Date:	20/05/2019	
Revision:	1.0	
1.4. Emergency telephone numb	ber	
Phone number:	+31-20-314-5000	
SECTION 2: Hazards identification	on	
2.1. Classification of the substar	nce or mixture	
EC regulation criteria 127		
	classified as dangerous accordin	g to Regulation EC 1272/2008
(CLP).		
	, human health and environment	al effects:
No other hazards		
2.2. Label elements		
	ed as dangerous according to Re	egulation EC $1272/2008$ (CLP).
Hazard pictograms:		
None Hazard statements:		
None Brocoutionary statements		
Precautionary statements None		
Special Provisions:		
None		
	ing to Annex XVII of REACH and	d subsequent amendments:
None		
2.3. Other hazards		
vPvB Substances: None -	PBT Substances: None	
Other Hazards:		
No other hazards		
SECTION 3: Composition/information	ation on ingredients	
3.1. Substances	-	
No		
3.2. Mixtures		
Hazardous components w	vithin the meaning of the CLP reg	gulation and related classification:
Of the Norma	Ident Number	Classification

	dent. Number	Classification
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30% ~ 40%	Ester oils			The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
25% ~ 30%	Fatty acids			The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
12.5% ~ 15%	Dyestuffs			The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
0.25% ~ 0.5%	Carbon black	CAS: EC:	1333-86-4 215-609-9	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

SECTION 4: First aid measures

- 4.1. Description of first aid measures
 - In case of skin contact:
 - Wash with plenty of water and soap.
 - In case of eyes contact:
 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - In case of Ingestion:
 - Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
 - In case of Inhalation:
 - Remove casualty to fresh air and keep warm and at rest.
- 4.2. Most important symptoms and effects, both acute and delayed
 - None
- 4.3. Indication of any immediate medical attention and special treatment needed Treatment:
 - None

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:
 - Water.
 - Carbon dioxide (CO2).
 - Extinguishing media which must not be used for safety reasons: None in particular.
- 5.2. Special hazards arising from the substance or mixture Do not inhale explosion and combustion gases.
 - Burning produces heavy smoke.
- 5.3. Advice for firefighters
 - Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures Wear personal protection equipment. Remove persons to safety.
 - See protective measures under point 7 and 8.
- 6.2. Environmental precautions

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Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

- 6.3. Methods and material for containment and cleaning up Wash with plenty of water.
- 6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists. Do not eat or drink while working.
 - See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities Keep away from food, drink and feed.
 - Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s) None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon black - CAS: 1333-86-4

- OEL Type: ACGIH - TWA(8h): 3 mg/m3

- OEL Type: OSHA TWA: 3.5 mg/m3
- OEL Type: JSOH TWA: 1 mg/m3 Notes: as Class 2 Dusts (Respirable dust)
- OEL Type: JSOH TWA: 4 mg/m3 Notes: as Class 2 Dusts (Total dust)
- Notes: as total dust
- **DNEL Exposure Limit Values**
 - No data available
- **PNEC Exposure Limit Values**
- No data available
- 8.2. Exposure controls
 - 8.2.1. Appropriate engineering controls:
 - None
 - 8.2.2. Individual protection measures, such as personal protective equipment Eye protection:

Use personal protective equipment as required.

Protection for skin:

Use personal protective equipment as required.

Protection for hands:

Use personal protective equipment as required.

Respiratory protection:

Use personal protective equipment as required.

- Thermal Hazards:
 - None
- 8.2.3. Environmental exposure controls:

None

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical prop	perties
About applying ink	Oily block
Appearance and colour: Odour:	Oily,black
	Slightly
Odour threshold:	No data available
pH:	Not Relevant
Melting point / freezing point:	No data available
Initial boiling point and boiling range:	No data available
Solid/gas flammability:	Not Relevant
Upper/lower flammability or explosive limits:	No data available
Vapour density:	No data available
Flash point:	220 °C / 428 ° F (Cleveland open cup
	method, JIS K2265-4)
Evaporation rate:	No data available
Vapour pressure:	No data available
Relative density:	about 1.0
Solubility in water:	Insoluble
Solubility in oil:	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
9.2. Other information	
Miscibility:	No data available
Fat Solubility:	No data available
Conductivity:	No data available

SECTION 10: Stability and reactivity

- 10.1. Reactivity
- Stable under normal conditions 10.2. Chemical stability
- Stable under normal conditions
- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid Stable under normal conditions.
- 10.5. Incompatible materials None in particular.
- 10.6. Hazardous decomposition products None.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
 - Toxicological information of the product:
 - e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative

- f) carcinogenicity:
- Components do not come under carcinogens (Ref. 1), except for Carbon black g) reproductive toxicity:
 - Does not contain reproductive toxicity and developmental toxic substances (Ref. 2)

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Toxicological information of the main substances found in the product:

Carbon black - CAS: 1333-86-4

a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rabbit > 3 g/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15 Test: LD50 - Route: Oral - Species: Rat > 15400 mg/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15

If not differently specified, the information required in Regulation (EU) 2015/830 listed below must be considered as 'No data available':

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Toxicological information of the product:

No data available

Toxicological information of the main substances found in the product: No data available

- 12.2. Persistence and degradability No data available
- 12.3. Bioaccumulative potential No data available
- 12.4. Mobility in soil No data available
- 12.5. Results of PBT and vPvB assessment vPvB Substances; None - PBT Substances; None
- 12.6. Other adverse effects None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

- 14.1. UN number
 - Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
 - No data available
- 14.3. Transport hazard class(es)
- No data available
- 14.4. Packing group
 - No data available
- 14.5. Environmental hazards

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No data available

14.6. Special precautions for user

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) 2015/830 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: No restriction. Restrictions related to the substances contained: No restriction. Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III) Regulation (EC) nr 648/2004 (detergents). Dir. 2004/42/EC (VOC directive) Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 None

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

 Ref. 1 ·IARC Monographs on the Evaluation Carcinogenic Risks to Humans (IARC: International Agency for Research on Cancer)
 ·Journal of Occupational Health (JOH) (Japan Society of Occupational Health (JSOH))
 ·TLVs and BEIs (ACGIH: American Conference of Governmental Industrial Hygienists)
 ·IRIS Carcinogenic Assessment (IRIS: Integrated Risk Information System of US EPA)
 ·National Toxicology Program (NTP) Report on Carcinogens (USA)



Ref. 2

Safety Data Sheet

Annex VI of 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 Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
MAK und BAT Werte Liste (DFG: German Research Foundation)
TRGS 905, Verzeichnis krebserzeugender, keimzell mutagener oder reproduktionstoxischer Stoffe (AGS: Committee on Hazardous Substances, Germany)
Annex VI of 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 Directives 67/548/EEC

 and 1999/45/EC, and amending Regulation (EC) No 1907/2006
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The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of
	Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical
	Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of
	Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport
	Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization"
	(ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods
	by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.