A CANON COMPANY

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

Ink Tank Black TCS500

of the mixture

Other means of identification

Article Number 29953720,29953724,1060019424

Registration number -

Synonyms None.

Product code 7518B002AA,7518B006AA,7518B009AA

Issue date 12-July-2019

Version number 1.2

Revision date 06-February-2020 Supersedes date 04-November-2019

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

Identified uses Inkjet printing ink.

Uses advised against Other uses not recommended.

1.3. Details of the supplier of the safety data sheet

Supplier Canon Production Printing Netherlands B.V.

Address Van der Grintenstraat 10

City 5914 HH Venlo
Country The Netherlands
Telephone Number +31 77 359 2222
E-mail address sds-hq@cpp.canon

1.4. Emergency telephone number

National Poison 111 (Available 24 hours a day.)

Information Center

NCEC Service +44 (0) 1235 239 670 For chemical emergencies only. (Available 24 hours a

day.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Reproductive toxicity Category 1B H360 - May damage fertility or the

unborn child.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2-pyrrolidone

Hazard pictograms



Signal word Danger

Hazard statements

H360 May damage fertility or the unborn child.

Precautionary statements

Prevention

P280 Wear protective gloves.

Response

 P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage Not available.

Disposal Not available.

Supplemental label information None.

2.3. Other hazardsNot a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
water	60 - < 90	7732-18-5 231-791-2	-	-	
Classification:	-				
2-pyrrolidone	5 - <10	616-45-5 210-483-1	-	-	
Classification:	Eye Irrit. 2;H319, Repr.	1B;H360			
Carbon Black	1 - < 5	1333-86-4 215-609-9	-	-	
Classification:	-				
1,2-Hexanediol	1 - <2.5	6920-22-5 230-029-6	-	-	
Classification:	Eye Irrit. 2;H319				

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice

(show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and

delayed

Exposure may cause temporary irritation, redness, or discomfort.

4.3. Indication of any

immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

Material name: Ink Tank Black TCS500

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up Avoid discharge into drains, water courses or onto the ground.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product

recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Professional and Industrial

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3
	TWA	3.5 mg/m3

Biological limit values

Recommended monitoring

procedures

No biological exposure limits noted for the ingredient(s).

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

Provide adequate ventilation. See operator manual or safety data sheet of the printer.

controls

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

If contact is likely, safety glasses with side shields are recommended. Not required during normal Eye/face protection

intended use of this product.

Skin protection

Wear appropriate chemical resistant gloves. Glove material: Nitrile.. Use gloves with breakthrough - Hand protection

time of 30 minutes. Minimum glove thickness 0.1 mm.

Not required during normal intended use of this product. - Other

In case of insufficient ventilation, wear suitable respiratory equipment. Not required during normal Respiratory protection

intended use of this product.

Thermal hazards Not normally needed.

Material name: Ink Tank Black TCS500

SDS UK

Observe any medical surveillance requirements. Always observe good personal hygiene Hygiene measures

measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure

controls

Contain spills and prevent releases and observe national regulations on emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. **Form** Liquid. Colour Black Odour Very faint. **Odour threshold** Not available. 7 - 8.5

рH Melting point/freezing point 0 °C (32 °F) Initial boiling point and boiling Not available.

range

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

1.41 hPa estimated Vapour pressure Vapour density Not available.

Relative density

Solubility(ies)

Not available. Not available.

Not available.

Partition coefficient (n-octanol/water)

Solubility (water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. Viscosity Not explosive. **Explosive properties** Oxidising properties Not oxidising

9.2. Other information

Density 1.26 g/cm3 estimated

SECTION 10: Stability and reactivity

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. 10.4. Conditions to avoid

Strong oxidising agents. 10.5. Incompatible materials

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Health injuries are not known or expected under normal use.

Ingestion Not available. However, ingestion is not likely to be a primary route of occupational exposure.

Material name: Ink Tank Black TCS500

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components Species Test Results

1,2-Hexanediol (CAS 6920-22-5)

Acute Dermal

LD50 Rat > 2000 mg/kg, Days

Oral

LD50 Rat 6166 mg/kg

2-pyrrolidone (CAS 616-45-5)

Acute Dermal

LD50 Rabbit > 2000 mg/kg bw/day OECD 402

> 2000 mg/kg, 24 Hours

Inhalation

LC0 Rat 0.061 mg/l, 4 hours OECD 403

Oral

LD50 Rat > 8000 mg/kg bw/day OECD 401

> 2000 mg/kg

Skin corrosion/irritation Health injuries are not known or expected under normal use.

Irritation Corrosion - Skin

Ink Tank Black TCS500 Result: Non-Irritating

1,2-Hexanediol OECD 404

Result: Not irritating

2-pyrrolidone OECD 404

Result: Not irritating

Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met.

Ink Tank Black TCS500 Result: Non-Irritating

1,2-Hexanediol OECD 405
Result: irritating
2-pyrrolidone OECD 405
Result: irritating

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation This product is not expected to cause skin sensitisation.

Skin sensitisation

Ink Tank Black TCS500 Result: Not sensitising
1,2-Hexanediol OECD 429, LLNA
Result: Negative
2-pyrrolidone OECD 429, Read across

Result: Not sensitizing

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Germ cell mutagenicity: Ames test

2-pyrrolidone OECD 471
Result: Negative
1,2-Hexanediol OECD 471

Result: Negative.

Germ cell mutagenicity: Chromosome abberation

2-pyrrolidone OECD 473
Result: Negative
1,2-Hexanediol OECD 473
Result: Negative.

Germ cell mutagenicity: Micronucleus

2-pyrrolidone OECD 474
Result: Negative

Mutagenicity

Ink Tank Black TCS500 Result: Negative. 1,2-Hexanediol OECD 476 Result: Negative.

Material name: Ink Tank Black TCS500

7518B002AA,7518B006AA,7518B009AA Version #: 1.2 Revision date: 06-February-2020 Issue date: 12-July-2019

No data available to indicate product or any components present at greater than 0.1% are Carcinogenicity

mutagenic or genotoxic.

Reproductive toxicity May damage fertility or the unborn child.

Developmental effects

1,2-Hexanediol 300 mg/kg OECD 414

Result: Negative. **OECD 414** Result: positive Species: Rabbit

Reproductivity

2-pyrrolidone

1,2-Hexanediol 1000 mg/kg

Result: Negative. Test Duration: 90 day

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

1,2-Hexanediol

500 mg/kg OECD 414, Oral

Result: Negative. 700 mg/kg OECD 411 Result: Negative. Test Duration: 90 day

Aspiration hazard

Not an aspiration hazard.

Mixture versus substance

information

No information available.

Other information Not available.

SECTION 12: Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the 12.1. Toxicity

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product Species Test Results

Ink Tank Black TCS500

Aquatic

Acute

Crustacea EC50 > 1000 mg/l, 48 hours Daphnia

Test Results Components **Species**

1,2-Hexanediol (CAS 6920-22-5)

LC50 > 100 mg/l, 72 hours Read across

Aquatic

Crustacea LC50 Daphnia > 1000 mg/l, 48 hours

LC50 Fish Fish > 1000 mg/l, 96 Hours Read across

2-pyrrolidone (CAS 616-45-5)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

Acute

EC50 Algae Algae > 500 mg/l, 72 hours

Crustacea LC50 Daphnia > 500 mg/l, 48 hours 4600 mg/l, 96 hours Fish LC50 Fish

12.2. Persistence and

degradability

Biodegradability

Percent Degradation (Aerobic Biodegradation)

1,2-Hexanediol OECD 301B

Result: Readily biodegradable **OECD 302** 2-pyrrolidone

Result: Readily biodegradable

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

2-pyrrolidone -0.71

Material name: Ink Tank Black TCS500 7518B002AA,7518B006AA,7518B009AA Version #: 1.2 Revision date: 06-February-2020 Issue date: 12-July-2019 **Bioconcentration factor (BCF)**

2-pyrrolidone 3.16

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effectsNo other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Disposal Considerations: EU waste codes

16 02 13* - discarded equipment containing hazardous components other than those mentioned in

16 02 09 to 16 02 12

EU waste code

08 03 12* waste ink containing hazardous substances

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

Not established.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk

according to Annex II of MARPOL 73/78 and the IBC

Code

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

SDS UK

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under

Sections 2 to 15

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

Revision information Product and Company Identification: Alternate Trade Names

SECTION 8: Exposure controls/personal protection: Eye/face protection SECTION 8: Exposure controls/personal protection: - Hand protection

SECTION 11: Toxicological information: Acute toxicity SECTION 11: Toxicological information: Ingestion SECTION 11: Toxicological information: Inhalation

Training information

Disclaimer

Follow training instructions when handling this material.

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation and is believed to be accurate. It provides guidance on health, safety and environmental aspects of the product and should neither be construed as any guarantee of specific properties nor of technical performance or suitability for particular applications. The product should not be used

for purposes other than those shown in Section 1. This document was prepared to the

requirements of the jurisdiction in Section 1 and may not meet regulatory requirements in other countries or territories. The information contained in this safety data sheet does not replace the user's own assessment of workplace risks, as required by applicable health and safety legislation.

Material name: Ink Tank Black TCS500