

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

Product name Canon Ink Tank PFI-320 BK
Product code(s) 2890C
Use Ink for Ink Jet Printer

Details of the supplier of the safety data sheet**Supplier**

Canon Australia Pty Ltd
Building A, The Park Estate, 5 Talavera Road, Macquarie Park, NSW 2113, Australia
Email : qse@canon.com.au
Phone number : (61) 2-9805-2000
Emergency phone number : 13 11 26 (Within Australia)

Manufacturer

Canon Inc.
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

SECTION 2: Hazards identification**Classification of the substance or mixture****GHS Classification**

Reproductive toxicity Category 1B

Label elements**Labelling according to GHS****Hazard pictograms****Signal word**

Danger

Hazard statements

May damage fertility or the unborn child.

Precautionary statements

Not required

Other information

Contains 1,2-benzisothiazol-3(2H)-one.
May produce an allergic reaction.
Contains less than 30% of components with unknown hazards to the aquatic environment.

Other hazards which do not result in classification

None

SECTION 3: Composition/information on ingredients

Mixtures

Chemical name	CAS-No	EC-No	Weight %	GHS Classification	Note to other hazards
Glycerin	56-81-5	200-289-5	5 - 10	None	(1)
2-Pyrrolidinone	616-45-5	210-483-1	5 - 10	Eye Irrit. 2 (H319) Repr. 1B (H360)	
Glycol	CBI	CBI	5 - 10	None	
Carbon black	1333-86-4	215-609-9	5 - 10	None	(1)
Water	7732-18-5	231-791-2	60 - 80	None	

Full texts of Hazard statement(s) are listed in SECTION 16

Note to other hazards : The following substance(s) is (are) marked with (1), (2) and/or (3)

- (1) Substance for which Exposure Limit(s) is (are) established (See SECTION 8)
- (2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006
- (3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

SECTION 4: First aid measures

Description of first aid measures

Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.
Eye contact	Flush with plenty of water. Get medical attention immediately if symptoms occur.

Most important symptoms and effects, both acute and delayed

Inhalation	None under normal use. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
Ingestion	None under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin contact	None under normal use.
Eye contact	None under normal use. May cause slight irritation.
Chronic effects	None under normal use.

Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use CO₂, water, dry chemical, or foam.

Unsuitable extinguishing media

None

Special hazards arising from the substance or mixture

Special hazard

None

Hazardous combustion products

Carbon dioxide (CO₂), Carbon monoxide (CO)

Advice for firefighters

Special protective equipment for firefighters

None

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

Environmental precautions

Keep out of waterways.

Methods and material for containment and cleaning up

Wipe up with adsorbent material (e.g. cloth, fleece).

Other information

None

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Clean contaminated surface thoroughly. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from direct sunlight. Keep away from heat and sources of ignition.

Specific end uses

Ink for Ink Jet Printer. Obtain special instructions before use.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits

Chemical name	EU OEL	Australia OEL	OSHA PEL	ACGIH TLV
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Glycerin 56-81-5	None	TWA: 10 mg/m ³ inhalable dust, mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction	None
Carbon black 1333-86-4	None	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³ inhalable particulate matter

Appropriate engineering controls None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face protection Not required under normal use.
Skin protection Not required under normal use.
Respiratory protection Not required under normal use.
Thermal hazards Not applicable

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Black ; Liquid
Odor	Slight odor
Odor threshold	No data available
pH	8 - 9
Melting/freezing point (°C)	No data available
Boiling point/range (°C)	No data available
Flash point (°C)	> 93.0°C (Tag. Closed Cup.); estimated
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Flammability limits in air	
Upper flammability limit	None; estimated
Lower flammability limit	None; estimated
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.0 - 1.1
Solubility(ies)	Water; miscible
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature (°C)	None; estimated
Decomposition temperature (°C)	No data available
Viscosity (mPa s)	1 - 5
Explosive properties	None; estimated
Oxidizing properties	None; estimated

Other information

No data available

SECTION 10: Stability and reactivity

Reactivity

None

Chemical stability

Stable

Possibility of hazardous reactions

None

Conditions to avoid

None

Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents.

Hazardous decomposition products

Carbon dioxide (CO₂), Carbon monoxide (CO), and/or Ammonia.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Serious eye damage/eye irritation	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Sensitization	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Germ cell mutagenicity	Ames test: Negative
Carcinogenicity	The IARC evaluated carbon black, as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposure to powdered carbon black at levels that induce particle overload of the lung. However, the amount of inhalation exposure to powdered carbon black is negligible under intended use of this product.
Reproductive toxicity	2-pyrrolidone is classified as a Category 1B (GHS) developmental toxicant. However, the amount of exposure to 2-pyrrolidone is negligible under intended use of this product.
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration hazard	No data available
Other information	No data available

SECTION 12: Ecological information

Toxicity

Ecotoxicity effects
No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Other adverse effects

No data available

SECTION 13: Disposal considerations

Waste treatment methods

Dispose of in accordance with local regulations.

SECTION 14: Transport information

UN number None

UN proper shipping name None

Transport hazard class None

Packing group None

Environmental hazards Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.

Special precautions for users IATA: Not regulated

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Other information Not classified as dangerous goods according to ADG.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

(EC) No 1907/2006 Authorisation	Not regulated
(EC) No 1907/2006 Restriction	Not regulated
(EC) No 1005/2009	Not regulated
(EU) 2019/1021	Not regulated
(EU) No 649/2012	Not regulated
Australia Information	Not classified as hazardous according to criteria of Work Health and Safety Regulations 2011.
Other information	None

SECTION 16: Other information

Full text of H-statements referred to under SECTION 2 and 3

H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child

GHS classification and labelling stated in SECTION 2 and 3 is according to EU Regulation (EC) No 1272/2008 and Australian Model Work Health and Safety Regulations 2011

Key literature references and sources for data

- U.S. Department of Labor, 29CFR Part 1910
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EU) 2019/1021, (EU) No 649/2012
- Safe Work Australia, Model Work Health and Safety Act 2011 and Model Work Health and Safety Regulations 2011
- Australian Code for the Transport of Dangerous Goods by Road & Rail

Key or legend to abbreviations and acronyms used in the safety data sheet

- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- EU OEL: Occupational exposure limits at Union level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164 and (EU) 2019/1831.
- OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA)
- ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- ADG: Australian Dangerous Goods
- CBI: Confidential Business Information

Issuing date : 17-Apr-2018
Revision date : 30-Oct-2020
Revision note SECTION 2, 3, 11, and 16 revised

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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

Product name Canon Ink Tank PFI-320 C
Product code(s) 2891C
Use Ink for Ink Jet Printer

Details of the supplier of the safety data sheet**Supplier**

Canon Australia Pty Ltd
Building A, The Park Estate, 5 Talavera Road, Macquarie Park, NSW 2113, Australia
Email : qse@canon.com.au
Phone number : (61) 2-9805-2000
Emergency phone number : 13 11 26 (Within Australia)

Manufacturer

Canon Inc.
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

SECTION 2: Hazards identification**Classification of the substance or mixture****GHS Classification**

Reproductive toxicity Category 1B

Label elements**Labelling according to GHS****Hazard pictograms****Signal word**

Danger

Hazard statements

May damage fertility or the unborn child.

Precautionary statements

Not required

Other information

Contains 1,2-benzisothiazol-3(2H)-one.
May produce an allergic reaction.
Contains less than 30% of components with unknown hazards to the aquatic environment.

Other hazards which do not result in classification

None

SECTION 3: Composition/information on ingredients

Mixtures

Chemical name	CAS-No	EC-No	Weight %	GHS Classification	Note to other hazards
Glycerin	56-81-5	200-289-5	5 - 10	None	(1)
2-Pyrrolidinone	616-45-5	210-483-1	5 - 10	Eye Irrit. 2 (H319) Repr. 1B (H360)	
Glycol	CBI	CBI	5 - 10	None	
Water	7732-18-5	231-791-2	60 - 80	None	

Full texts of Hazard statement(s) are listed in SECTION 16

Note to other hazards : The following substance(s) is (are) marked with (1), (2) and/or (3)

- (1) Substance for which Exposure Limit(s) is (are) established (See SECTION 8)
- (2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006
- (3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

SECTION 4: First aid measures

Description of first aid measures

Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.
Eye contact	Flush with plenty of water. Get medical attention immediately if symptoms occur.

Most important symptoms and effects, both acute and delayed

Inhalation	None under normal use. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
Ingestion	None under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin contact	None under normal use.
Eye contact	None under normal use. May cause slight irritation.
Chronic effects	None under normal use.

Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use CO₂, water, dry chemical, or foam.

Unsuitable extinguishing media
None

Special hazards arising from the substance or mixture

Special hazard
None

Hazardous combustion products
Carbon dioxide (CO₂), Carbon monoxide (CO)

Advice for firefighters

Special protective equipment for firefighters
None

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

Environmental precautions

Keep out of waterways.

Methods and material for containment and cleaning up

Wipe up with adsorbent material (e.g. cloth, fleece).

Other information

None

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Clean contaminated surface thoroughly. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from direct sunlight. Keep away from heat and sources of ignition.

Specific end uses

Ink for Ink Jet Printer. Obtain special instructions before use.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits

Chemical name	EU OEL	Australia OEL	OSHA PEL	ACGIH TLV
Glycerin	None	TWA: 10 mg/m ³ inhalable	TWA: 15 mg/m ³ mist, total	None

56-81-5		dust, mist	particulate TWA: 5 mg/m ³ mist, respirable fraction	
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Appropriate engineering controls None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face protection	Not required under normal use.
Skin protection	Not required under normal use.
Respiratory protection	Not required under normal use.
Thermal hazards	Not applicable

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Cyan ; Liquid
Odor	Slight odor
Odor threshold	No data available
pH	8 - 9
Melting/freezing point (°C)	No data available
Boiling point/range (°C)	No data available
Flash point (°C)	> 93.0°C (Tag. Closed Cup.); estimated
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Flammability limits in air	
Upper flammability limit	None; estimated
Lower flammability limit	None; estimated
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.0 - 1.1
Solubility(ies)	Water; miscible
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature (°C)	None; estimated
Decomposition temperature (°C)	No data available
Viscosity (mPa s)	1 - 5
Explosive properties	None; estimated
Oxidizing properties	None; estimated

Other information

No data available

SECTION 10: Stability and reactivity

Reactivity

None

Chemical stability

Stable

Possibility of hazardous reactions

None

Conditions to avoid

None

Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents.

Hazardous decomposition products

Carbon dioxide (CO₂), Carbon monoxide (CO), and/or Ammonia.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Serious eye damage/eye irritation	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Sensitization	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Germ cell mutagenicity	Ames test: Negative
Carcinogenicity	No data available
Reproductive toxicity	2-pyrrolidone is classified as a Category 1B (GHS) developmental toxicant. However, the amount of exposure to 2-pyrrolidone is negligible under intended use of this product.
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration hazard	No data available
Other information	No data available

SECTION 12: Ecological information

Toxicity

Ecotoxicity effects
No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Other adverse effects

No data available

SECTION 13: Disposal considerations

Waste treatment methods

Dispose of in accordance with local regulations.

SECTION 14: Transport information

<u>UN number</u>	None
<u>UN proper shipping name</u>	None
<u>Transport hazard class</u>	None
<u>Packing group</u>	None
<u>Environmental hazards</u>	Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.
<u>Special precautions for users</u>	IATA: Not regulated
<u>Transport in bulk according to Annex II of MARPOL and the IBC Code</u>	Not applicable
<u>Other information</u>	Not classified as dangerous goods according to ADG.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

(EC) No 1907/2006 Authorisation	Not regulated
(EC) No 1907/2006 Restriction	Not regulated
(EC) No 1005/2009	Not regulated
(EU) 2019/1021	Not regulated
(EU) No 649/2012	Not regulated
Australia Information	Not classified as hazardous according to criteria of Work Health and Safety Regulations 2011.
Other information	None

SECTION 16: Other information

Full text of H-statements referred to under SECTION 2 and 3

H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child

GHS classification and labelling stated in SECTION 2 and 3 is according to EU Regulation (EC) No 1272/2008 and Australian Model Work Health and Safety Regulations 2011

Key literature references and sources for data

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- U.S. Department of Labor, 29CFR Part 1910
 - ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
 - World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
 - EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EU) 2019/1021, (EU) No 649/2012
 - Safe Work Australia, Model Work Health and Safety Act 2011 and Model Work Health and Safety Regulations 2011
 - Australian Code for the Transport of Dangerous Goods by Road & Rail

Key or legend to abbreviations and acronyms used in the safety data sheet

- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- EU OEL: Occupational exposure limits at Union level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164 and (EU) 2019/1831.
- OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA)
- ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
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Issuing date : 17-Apr-2018

Revision date : 30-Oct-2020

Revision note SECTION 2, 3, 11, and 16 revised

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

Product name Canon Ink Tank PFI-320 M
Product code(s) 2892C
Use Ink for Ink Jet Printer

Details of the supplier of the safety data sheet**Supplier**

Canon Australia Pty Ltd
Building A, The Park Estate, 5 Talavera Road, Macquarie Park, NSW 2113, Australia
Email : qse@canon.com.au
Phone number : (61) 2-9805-2000
Emergency phone number : 13 11 26 (Within Australia)

Manufacturer

Canon Inc.
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

SECTION 2: Hazards identification**Classification of the substance or mixture****GHS Classification**

Reproductive toxicity Category 1B

Label elements**Labelling according to GHS****Hazard pictograms****Signal word**

Danger

Hazard statements

May damage fertility or the unborn child.

Precautionary statements

Not required

Other information

Contains 1,2-benzisothiazol-3(2H)-one.
May produce an allergic reaction.
Contains less than 30% of components with unknown hazards to the aquatic environment.

Other hazards which do not result in classification

None

SECTION 3: Composition/information on ingredients

Mixtures

Chemical name	CAS-No	EC-No	Weight %	GHS Classification	Note to other hazards
Glycerin	56-81-5	200-289-5	10 - 15	None	(1)
2-Pyrrolidinone	616-45-5	210-483-1	5 - 10	Eye Irrit. 2 (H319) Repr. 1B (H360)	
Glycol	CBI	CBI	5 - 10	None	
Water	7732-18-5	231-791-2	60 - 80	None	

Full texts of Hazard statement(s) are listed in SECTION 16

Note to other hazards : The following substance(s) is (are) marked with (1), (2) and/or (3)

- (1) Substance for which Exposure Limit(s) is (are) established (See SECTION 8)
- (2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006
- (3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

SECTION 4: First aid measures

Description of first aid measures

Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.
Eye contact	Flush with plenty of water. Get medical attention immediately if symptoms occur.

Most important symptoms and effects, both acute and delayed

Inhalation	None under normal use. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
Ingestion	None under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin contact	None under normal use.
Eye contact	None under normal use. May cause slight irritation.
Chronic effects	None under normal use.

Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use CO₂, water, dry chemical, or foam.

Unsuitable extinguishing media
None

Special hazards arising from the substance or mixture

Special hazard
None

Hazardous combustion products
Carbon dioxide (CO₂), Carbon monoxide (CO)

Advice for firefighters

Special protective equipment for firefighters
None

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

Environmental precautions

Keep out of waterways.

Methods and material for containment and cleaning up

Wipe up with adsorbent material (e.g. cloth, fleece).

Other information

None

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Clean contaminated surface thoroughly. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from direct sunlight. Keep away from heat and sources of ignition.

Specific end uses

Ink for Ink Jet Printer. Obtain special instructions before use.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits

Chemical name	EU OEL	Australia OEL	OSHA PEL	ACGIH TLV
Glycerin	None	TWA: 10 mg/m ³ inhalable	TWA: 15 mg/m ³ mist, total	None

56-81-5		dust, mist	particulate TWA: 5 mg/m ³ mist, respirable fraction	
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Appropriate engineering controls None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face protection	Not required under normal use.
Skin protection	Not required under normal use.
Respiratory protection	Not required under normal use.
Thermal hazards	Not applicable

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Magenta ; Liquid
Odor	Slight odor
Odor threshold	No data available
pH	8 - 9
Melting/freezing point (°C)	No data available
Boiling point/range (°C)	No data available
Flash point (°C)	> 93.0°C (Tag. Closed Cup.); estimated
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Flammability limits in air	
Upper flammability limit	None; estimated
Lower flammability limit	None; estimated
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.0 - 1.1
Solubility(ies)	Water; miscible
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature (°C)	None; estimated
Decomposition temperature (°C)	No data available
Viscosity (mPa s)	1 - 5
Explosive properties	None; estimated
Oxidizing properties	None; estimated

Other information

No data available

SECTION 10: Stability and reactivity

Reactivity

None

Chemical stability

Stable

Possibility of hazardous reactions

None

Conditions to avoid

None

Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents.

Hazardous decomposition products

Carbon dioxide (CO₂), Carbon monoxide (CO), and/or Ammonia.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Serious eye damage/eye irritation	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Sensitization	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Germ cell mutagenicity	Ames test: Negative
Carcinogenicity	No data available
Reproductive toxicity	2-pyrrolidone is classified as a Category 1B (GHS) developmental toxicant. However, the amount of exposure to 2-pyrrolidone is negligible under intended use of this product.
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration hazard	No data available
Other information	No data available

SECTION 12: Ecological information

Toxicity

Ecotoxicity effects
No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Other adverse effects

No data available

SECTION 13: Disposal considerations

Waste treatment methods

Dispose of in accordance with local regulations.

SECTION 14: Transport information

<u>UN number</u>	None
<u>UN proper shipping name</u>	None
<u>Transport hazard class</u>	None
<u>Packing group</u>	None
<u>Environmental hazards</u>	Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.
<u>Special precautions for users</u>	IATA: Not regulated
<u>Transport in bulk according to Annex II of MARPOL and the IBC Code</u>	Not applicable
<u>Other information</u>	Not classified as dangerous goods according to ADG.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

(EC) No 1907/2006 Authorisation	Not regulated
(EC) No 1907/2006 Restriction	Not regulated
(EC) No 1005/2009	Not regulated
(EU) 2019/1021	Not regulated
(EU) No 649/2012	Not regulated
Australia Information	Not classified as hazardous according to criteria of Work Health and Safety Regulations 2011.
Other information	None

SECTION 16: Other information

Full text of H-statements referred to under SECTION 2 and 3

H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child

GHS classification and labelling stated in SECTION 2 and 3 is according to EU Regulation (EC) No 1272/2008 and Australian Model Work Health and Safety Regulations 2011

Key literature references and sources for data

-
- U.S. Department of Labor, 29CFR Part 1910
 - ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
 - World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
 - EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EU) 2019/1021, (EU) No 649/2012
 - Safe Work Australia, Model Work Health and Safety Act 2011 and Model Work Health and Safety Regulations 2011
 - Australian Code for the Transport of Dangerous Goods by Road & Rail

Key or legend to abbreviations and acronyms used in the safety data sheet

- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- EU OEL: Occupational exposure limits at Union level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164 and (EU) 2019/1831.
- OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA)
- ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- ADG: Australian Dangerous Goods
- CBI: Confidential Business Information

Issuing date : 17-Apr-2018

Revision date : 30-Oct-2020

Revision note SECTION 2, 3, 11, and 16 revised

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

Product name Canon Ink Tank PFI-320 MBK
Product code(s) 2889C
Use Ink for Ink Jet Printer

Details of the supplier of the safety data sheet**Supplier**

Canon Australia Pty Ltd
Building A, The Park Estate, 5 Talavera Road, Macquarie Park, NSW 2113, Australia
Email : qse@canon.com.au
Phone number : (61) 2-9805-2000
Emergency phone number : 13 11 26 (Within Australia)

Manufacturer

Canon Inc.
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

SECTION 2: Hazards identification**Classification of the substance or mixture****GHS Classification**

Reproductive toxicity Category 1B

Label elements**Labelling according to GHS****Hazard pictograms****Signal word**

Danger

Hazard statements

May damage fertility or the unborn child.

Precautionary statements

Not required

Other information

Contains 1,2-benzisothiazol-3(2H)-one.
May produce an allergic reaction.
Contains less than 30% of components with unknown hazards to the aquatic environment.

Other hazards which do not result in classification

None

SECTION 3: Composition/information on ingredients

Mixtures

Chemical name	CAS-No	EC-No	Weight %	GHS Classification	Note to other hazards
Glycerin	56-81-5	200-289-5	10 - 15	None	(1)
Glycol	CBI	CBI	5 - 10	None	
2-Pyrrolidinone	616-45-5	210-483-1	1 - 5	Eye Irrit. 2 (H319) Repr. 1B (H360)	
Water	7732-18-5	231-791-2	60 - 80	None	

Full texts of Hazard statement(s) are listed in SECTION 16

Note to other hazards : The following substance(s) is (are) marked with (1), (2) and/or (3)

- (1) Substance for which Exposure Limit(s) is (are) established (See SECTION 8)
- (2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006
- (3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

SECTION 4: First aid measures

Description of first aid measures

Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.
Eye contact	Flush with plenty of water. Get medical attention immediately if symptoms occur.

Most important symptoms and effects, both acute and delayed

Inhalation	None under normal use. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
Ingestion	None under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin contact	None under normal use.
Eye contact	None under normal use. May cause slight irritation.
Chronic effects	None under normal use.

Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use CO₂, water, dry chemical, or foam.

Unsuitable extinguishing media
None

Special hazards arising from the substance or mixture

Special hazard
None

Hazardous combustion products
Carbon dioxide (CO₂), Carbon monoxide (CO)

Advice for firefighters

Special protective equipment for firefighters
None

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

Environmental precautions

Keep out of waterways.

Methods and material for containment and cleaning up

Wipe up with adsorbent material (e.g. cloth, fleece).

Other information

None

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Clean contaminated surface thoroughly. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from direct sunlight. Keep away from heat and sources of ignition.

Specific end uses

Ink for Ink Jet Printer. Obtain special instructions before use.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits

Chemical name	EU OEL	Australia OEL	OSHA PEL	ACGIH TLV
Glycerin	None	TWA: 10 mg/m ³ inhalable	TWA: 15 mg/m ³ mist, total	None

56-81-5		dust, mist	particulate TWA: 5 mg/m ³ mist, respirable fraction	
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Appropriate engineering controls None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face protection	Not required under normal use.
Skin protection	Not required under normal use.
Respiratory protection	Not required under normal use.
Thermal hazards	Not applicable

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Black ; Liquid
Odor	Slight odor
Odor threshold	No data available
pH	8 - 9
Melting/freezing point (°C)	No data available
Boiling point/range (°C)	No data available
Flash point (°C)	> 93.0°C (Tag. Closed Cup.); estimated
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Flammability limits in air	
Upper flammability limit	None; estimated
Lower flammability limit	None; estimated
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.0 - 1.1
Solubility(ies)	Water; miscible
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature (°C)	None; estimated
Decomposition temperature (°C)	No data available
Viscosity (mPa s)	1 - 5
Explosive properties	None; estimated
Oxidizing properties	None; estimated

Other information

No data available

SECTION 10: Stability and reactivity

Reactivity

None

Chemical stability

Stable

Possibility of hazardous reactions

None

Conditions to avoid

None

Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents.

Hazardous decomposition products

Carbon dioxide (CO₂), Carbon monoxide (CO), and/or Ammonia.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Serious eye damage/eye irritation	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Sensitization	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Germ cell mutagenicity	Ames test: Negative
Carcinogenicity	No data available
Reproductive toxicity	2-pyrrolidone is classified as a Category 1B (GHS) developmental toxicant. However, the amount of exposure to 2-pyrrolidone is negligible under intended use of this product.
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration hazard	No data available
Other information	No data available

SECTION 12: Ecological information

Toxicity

Ecotoxicity effects
No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Other adverse effects

No data available

SECTION 13: Disposal considerations

Waste treatment methods

Dispose of in accordance with local regulations.

SECTION 14: Transport information

<u>UN number</u>	None
<u>UN proper shipping name</u>	None
<u>Transport hazard class</u>	None
<u>Packing group</u>	None
<u>Environmental hazards</u>	Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.
<u>Special precautions for users</u>	IATA: Not regulated
<u>Transport in bulk according to Annex II of MARPOL and the IBC Code</u>	Not applicable
<u>Other information</u>	Not classified as dangerous goods according to ADG.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

(EC) No 1907/2006 Authorisation	Not regulated
(EC) No 1907/2006 Restriction	Not regulated
(EC) No 1005/2009	Not regulated
(EU) 2019/1021	Not regulated
(EU) No 649/2012	Not regulated
Australia Information	Not classified as hazardous according to criteria of Work Health and Safety Regulations 2011.
Other information	None

SECTION 16: Other information

Full text of H-statements referred to under SECTION 2 and 3

H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child

GHS classification and labelling stated in SECTION 2 and 3 is according to EU Regulation (EC) No 1272/2008 and Australian Model Work Health and Safety Regulations 2011

Key literature references and sources for data

-
- U.S. Department of Labor, 29CFR Part 1910
 - ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
 - World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
 - EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EU) 2019/1021, (EU) No 649/2012
 - Safe Work Australia, Model Work Health and Safety Act 2011 and Model Work Health and Safety Regulations 2011
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Key or legend to abbreviations and acronyms used in the safety data sheet

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- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- EU OEL: Occupational exposure limits at Union level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164 and (EU) 2019/1831.
- OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA)
- ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- ADG: Australian Dangerous Goods
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Issuing date : 17-Apr-2018

Revision date : 30-Oct-2020

Revision note SECTION 2, 3, 11, and 16 revised

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

Product name Canon Ink Tank PFI-320 Y
Product code(s) 2893C
Use Ink for Ink Jet Printer

Details of the supplier of the safety data sheet**Supplier**

Canon Australia Pty Ltd
Building A, The Park Estate, 5 Talavera Road, Macquarie Park, NSW 2113, Australia
Email : qse@canon.com.au
Phone number : (61) 2-9805-2000
Emergency phone number : 13 11 26 (Within Australia)

Manufacturer

Canon Inc.
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

SECTION 2: Hazards identification**Classification of the substance or mixture****GHS Classification**

Reproductive toxicity Category 1B

Label elements**Labelling according to GHS****Hazard pictograms****Signal word**

Danger

Hazard statements

May damage fertility or the unborn child.

Precautionary statements

Not required

Other information

Contains 1,2-benzisothiazol-3(2H)-one.
May produce an allergic reaction.
Contains less than 30% of components with unknown hazards to the aquatic environment.

Other hazards which do not result in classification

None

SECTION 3: Composition/information on ingredients

Mixtures

Chemical name	CAS-No	EC-No	Weight %	GHS Classification	Note to other hazards
Glycerin	56-81-5	200-289-5	5 - 10	None	(1)
2-Pyrrolidinone	616-45-5	210-483-1	5 - 10	Eye Irrit. 2 (H319) Repr. 1B (H360)	
Water	7732-18-5	231-791-2	60 - 80	None	

Full texts of Hazard statement(s) are listed in SECTION 16

Note to other hazards : The following substance(s) is (are) marked with (1), (2) and/or (3)

- (1) Substance for which Exposure Limit(s) is (are) established (See SECTION 8)
- (2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006
- (3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

SECTION 4: First aid measures

Description of first aid measures

Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.
Eye contact	Flush with plenty of water. Get medical attention immediately if symptoms occur.

Most important symptoms and effects, both acute and delayed

Inhalation	None under normal use. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
Ingestion	None under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin contact	None under normal use.
Eye contact	None under normal use. May cause slight irritation.
Chronic effects	None under normal use.

Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use CO₂, water, dry chemical, or foam.

Unsuitable extinguishing media

None

Special hazards arising from the substance or mixture

Special hazard

None

Hazardous combustion products

Carbon dioxide (CO₂), Carbon monoxide (CO)

Advice for firefighters

Special protective equipment for firefighters

None

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

Environmental precautions

Keep out of waterways.

Methods and material for containment and cleaning up

Wipe up with adsorbent material (e.g. cloth, fleece).

Other information

None

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Clean contaminated surface thoroughly. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from direct sunlight. Keep away from heat and sources of ignition.

Specific end uses

Ink for Ink Jet Printer. Obtain special instructions before use.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits

Chemical name	EU OEL	Australia OEL	OSHA PEL	ACGIH TLV
Glycerin 56-81-5	None	TWA: 10 mg/m ³ inhalable dust, mist	TWA: 15 mg/m ³ mist, total particulate	None

			TWA: 5 mg/m ³ mist, respirable fraction	
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Appropriate engineering controls None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face protection	Not required under normal use.
Skin protection	Not required under normal use.
Respiratory protection	Not required under normal use.
Thermal hazards	Not applicable

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Yellow ; Liquid
Odor	Slight odor
Odor threshold	No data available
pH	8 - 9
Melting/freezing point (°C)	No data available
Boiling point/range (°C)	No data available
Flash point (°C)	> 93.0°C (Tag. Closed Cup.); estimated
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Flammability limits in air	
Upper flammability limit	None; estimated
Lower flammability limit	None; estimated
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.0 - 1.1
Solubility(ies)	Water; miscible
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature (°C)	None; estimated
Decomposition temperature (°C)	No data available
Viscosity (mPa s)	1 - 5
Explosive properties	None; estimated
Oxidizing properties	None; estimated

Other information

No data available

SECTION 10: Stability and reactivity

Reactivity

None

Chemical stability

Stable

Possibility of hazardous reactions

None

Conditions to avoid

None

Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents.

Hazardous decomposition products

Carbon dioxide (CO₂), Carbon monoxide (CO), and/or Ammonia.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Serious eye damage/eye irritation	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Sensitization	Not classified based on the classification criteria under UN GHS (OECD Guideline)
Germ cell mutagenicity	Ames test: Negative
Carcinogenicity	No data available
Reproductive toxicity	2-pyrrolidone is classified as a Category 1B (GHS) developmental toxicant. However, the amount of exposure to 2-pyrrolidone is negligible under intended use of this product.
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration hazard	No data available
Other information	No data available

SECTION 12: Ecological information

Toxicity

Ecotoxicity effects
No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Other adverse effects

No data available

SECTION 13: Disposal considerations

Waste treatment methods

Dispose of in accordance with local regulations.

SECTION 14: Transport information

<u>UN number</u>	None
<u>UN proper shipping name</u>	None
<u>Transport hazard class</u>	None
<u>Packing group</u>	None
<u>Environmental hazards</u>	Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.
<u>Special precautions for users</u>	IATA: Not regulated
<u>Transport in bulk according to Annex II of MARPOL and the IBC Code</u>	Not applicable
<u>Other information</u>	Not classified as dangerous goods according to ADG.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

(EC) No 1907/2006 Authorisation	Not regulated
(EC) No 1907/2006 Restriction	Not regulated
(EC) No 1005/2009	Not regulated
(EU) 2019/1021	Not regulated
(EU) No 649/2012	Not regulated
Australia Information	Not classified as hazardous according to criteria of Work Health and Safety Regulations 2011.
Other information	None

SECTION 16: Other information

Full text of H-statements referred to under SECTION 2 and 3

H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child

GHS classification and labelling stated in SECTION 2 and 3 is according to EU Regulation (EC) No 1272/2008 and Australian Model Work Health and Safety Regulations 2011

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