

1. IDENTIFICATION Product identifier Mixture identification: Trade name: Ink Cartridge, T7821 Recommended use of the chemical and restrictions on use Recommended use: Ink for inkiet printing Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party Supplier in Astralia: **EPSON** Australia Pty Limited 3 Talavera Road, North Ryde, NSW 2113, Australia (02) 8899 3666 www.epson.com.au Supplier in New Zealand: **EPSON New Zealand Pty Limited** 7-9 Fanshawe Street, Auckland 1010, New Zealand (09) 366 6855 www.epson.co.nz Emergency phone number Australia (02) 8899 3666 (Mon-Fri, 9AM-5PM, AEST) New Zealand (09) 366 6855 (Mon-Fri, 9AM-5PM, NZST) 2. HAZARD(S) IDENTIFICATION Classification of the chemical The product is not classified as dangerous according to GHS - Fifth revised edition. Label elements The product is not classified as dangerous according to Australia WHS 2012. Hazard pictograms: None Hazard statements: None Precautionary statements: None Special Provisions: None Hazards not otherwise classified identified during the classification process: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

No data available

Mixtures

Hazardous components within the meaning of GHS regulation and related classifications:

65% ~ 80% Water

CAS: 7732-18-5, EC: 231-791-2

The product is not classified as dangerous according to GHS - Fifth revised edition.

7% ~ 10% Glycerol

CAS: 56-81-5, EC: 200-289-5

The product is not classified as dangerous according to GHS - Fifth revised edition.

7% ~ 10% 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether REACH No.: 01-2119475107-38, Index number: 603-183-00-0, CAS: 143-22-6, EC: 205-592-6
3.3/1 Eye Dam. 1 H318

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1% ~ 3% E-BK105 REACH No.: 01-2119928535-33, EC: 700-794-5 4.1/C3 Aquatic Chronic 3 H412

0.1% ~ 0.25% Triethanol amine

CAS: 102-71-6, EC: 203-049-8

The product is not classified as dangerous according to GHS - Fifth revised edition.

4. FIRST-AID MEASURES

Description of necessary 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.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed Treatment:

None

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water. Carbon dioxide (CO2). Unsuitable extinguishing media: None in particular. Specific hazards arising from the chemical Do not inhale explosion and combustion gases. Burning produces heavy smoke. Hazardous combustion products: None Explosive properties: No data available Oxidizing properties: No data available Special protective equipment and precautions for fire-fighters 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8. Methods and materials for containment and cleaning up Wash with plenty of water.

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7. HANDLING AND STORAGE	
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.	
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.	
Storage temperature:	
Store at ambient temperature.	
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Control parameters	
Glycerol - CAS: 56-81-5	
- OEL Type: OSHA - LTE: 5 mg/m3	
- OEL Type: OSHA - LTE: 15 mg/m3	
DNEL Exposure Limit Values	
No data available	
PNEC Exposure Limit Values	
2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - C 143-22-6	;AS:
Target: Fresh Water - Value: 1.5 mg/l	
Target: Freshwater sediments - Value: 5.77 mg/kg	
Target: Marine water - Value: 0.15 mg/l	
Target: Marine water sediments - Value: 0.13 mg/kg	
Target: Microorganisms in sewage treatments - Value: 200 mg/l	
Appropriate engineering controls:	
None	
Individual protection measures	
Eye protection:	
Not needed for normal use. Anyway, operate according good working practices.	
Protection for skin:	
No special precaution must be adopted for normal use.	
Protection for hands:	
Not needed for normal use.	
None	
Respiratory protection: Not needed for normal use. Thermal Hazards:	

Арр	pearance and colour:	Black Liquid	Ł		
Od	our:	Slightly			
Od	our threshold:	No data ava	ailable		
pH:		8~9	at 20 °0	2	
Me	Iting point / freezing point:	-15.6 °C			
Initi	ial boiling point and boiling range:	No data ava	ailable		
Sol	id/gas flammability:	No data ava	ailable		
Up	per/lower flammability or explosive limits:	No data ava	ailable		
Vap	oour density:	No data ava	ailable		
Fla	sh point:	Does not fla method, AS		100 °C / 212 ° F 278)	(closed cup



Evaporation rate: Vapour pressure: Relative density: Solubility in water: Solubility in oil: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Miscibility: Fat Solubility: Fat Solubility: Substance Groups relevant properties No data available No data available 1.059 at 20 °C Complete No data available No data available No data available No data available $< 5 \text{ mPa} \cdot \text{s}$ at 20 °C No data available No data available

10. STABILITY AND REACTIVITY

Reactivity Stable under normal conditions Chemical stability Stable under normal conditions Possibility of hazardous reactions None Conditions to avoid Stable under normal conditions. Incompatible materials None in particular. Hazardous decomposition products None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the mixture:

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative Toxicological information of the main substances found in the mixture:

Glycerol - CAS: 56-81-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Guinea pig = 7750 mg/kg - Source: Journal of Industrial Hygiene and Toxicology. Vol. 23, Pg. 259, 1941

Test: LDLo - Route: Oral - Species: Human = 1428 mg/kg - Source: "Toxicology of Drugs and Chemicals," Deichmann, W.B., New York, Academic Press, Inc., 1969Vol. -, Pg. 288, 1969.

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6

a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rabbit = 3.54 ml/kg - Source: American Industrial Hygiene Association Journal. Vol. 23, Pg. 95, 1962.

Test: LD50 - Route: Oral - Species: Rat = 5300 mg/kg - Source: Office of Toxic Substances Report. Vol. OTS,

Triethanol amine - CAS: 102-71-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Guinea pig = 2200 mg/kg - Source: "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure," Izmerov, N.F., et al., Moscow, Centre of International Projects, GKNT, 1982Vol. -, Pg. 114, 1982. Test: LD50 - Route: Oral - Species: Mouse = 5846 mg/kg - Source: Science Reports of the Research Institutes, Tohoku University, Series C: Medicine. Vol. 36(1-4), Pg. 10, 1989.

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Substance(s) listed on the NTP report on Carcinogens: None. Substance(s) listed on the IARC Monographs: Triethanol amine - Group 3. Substance(s) listed as OSHA Carcinogen(s): None. Substance(s) listed as NIOSH Carcinogen(s): None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment. No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects None

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

UN number Not classified as dangerous in the meaning of transport regulations. UN proper shipping name No data available Transport hazard class(es) No data available Packing group No data available Environmental hazards No data available Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code) No data available Special precautions No data available

15. REGULATORY INFORMATION

USA - Federal regulations

- TSCA Toxic Substances Control Act
 - TSCA inventory: all the components are listed on the TSCA inventory.
 - TSCA listed substances:
 - None.
- SARA Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

- Section 304 Hazardous substances: no substances listed.
- Section 313 Toxic chemical list: 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether.

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CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act Substance(s) listed under CERCLA: 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether.
CAA - Clean Air Act
CAA listed substances:
Glycerol is listed in CAA Section 111
2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether is
listed in CAA Section 112, Section 112(b) - HON.
CWA - Clean Water Act
CWA listed substances:
None.
Australia Information:
Statement of Hazardous Nature:
Not classified as hazardous according to criteria of NOHSC

New Zealand Information:

Hazardous Substances and New Organisms Act 1996:

Not regulated

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Safety Data Sheet dated June 22, 2017, Revision: 1.0

Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

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.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
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.
LTE:	Long-term exposure.
NFPA:	National Fire Protection Association



NIOSH: NTP:	National Institute for Occupational Safety and Health National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).