

Mixture identifica	ation:	
Trade name:	Ink Cartridg	e, T44J4
Recommended use of	the chemical and restriction	s on use
Recommended	use:	
	Ink for inkjet printing	
Supplier's details		
Supplier in Aust		
	EPSON Australia Pty Lir	
		Ryde, NSW 2113, Australia
	(02) 8899 3666	www.epson.com.au
Supplier in New		
	EPSON New Zealand Pt	
		uckland 1010, New Zealand
	(09) 366 6855	www.epson.co.nz
Date:	24/06/2020	
Revision:	1.0	
Emergency phone nun		
Australia New Zealand		666 (Mon-Fri, 9AM-5PM, AEST)
	(09) 300 00	55 (Mon-Fri, 9AM-5PM, NZST)
azard identification		
Classification of the Ha		
		according to GHS - Fifth revised edition.
	ncluding precautionary state	
	sified as dangerous accordi	ing to GHS - Fifth revised edition.
Hazard pictograms:		
None		
Hazard statements:		
None		
Precautionary stateme	nts:	
None		
Special Provisions:		
None	lo not result in a classificatio	

No

Mixtures

Hazardous components within the meaning of GHS and related classification:

Qty	Name	Ident. Nu	umber	Classification
65% ~ 80%	Water	CAS: EC:	7732-18-5 231-791-2	The product is not classified as dangerous according to GHS - Fifth revised edition.
7% ~ 10%	Glycerol	CAS: EC:	56-81-5 200-289-5	The product is not classified as dangerous according to GHS - Fifth revised edition.
1% ~ 3%	Triethanol amine	CAS: EC:	102-71-6 203-049-8	The product is not classified as dangerous according to GHS - Fifth revised edition.



0.1% ~ 2,4,7,9-tetramethylded 0.25% 5-yne-4,7-diol	EC:	204-809-1	 3.3/1 Eye Dam. 1 H318 3.4.2/1 Skin Sens. 1 H317 4.1/C3 Aquatic Chronic 3 H412
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4. First-aid measures

Description of necessary 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.

Symptoms caused by exposure

None

Medical attention and special treatment

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.

Environmental precautions

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

Methods and material for containment and cleaning up

Wash with plenty of water.

7. Handling and storage

AUS, T44J4_en Page n. 2 of 7 Version 8.0 Revison 1.0



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.

8. Exposure controls/personal protection

Control parameters - exposure standards, biological monitoring Glycerol - CAS: 56-81-5 - OEL Type: OSHA - TWA: 5 mg/m3 - Notes: Respirable dust - OEL Type: OSHA - TWA: 15 mg/m3 - Notes: Total dust Triethanol amine - CAS: 102-71-6 - OEL Type: ACGIH - TWA(8h): 5 mg/m3 **DNEL Exposure Limit Values** No data available **PNEC Exposure Limit Values** 2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3 Target: Fresh Water - Value: 0.04 mg/l Target: Marine water - Value: 0.004 mg/l Target: Freshwater sediments - Value: 0.32 mg/kg Target: Marine water sediments - Value: 0.032 mg/kg Appropriate engineering controls None Individual protection measures, such as personal protective equipment (PPE) 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 **Chemical Controls for Australian Printers** • Minimise skin contact with inks and cleaning chemicals.

• Ensure that ventilation equipment is maintained and working effectively, to minimise airborne exposures.

9. Physical and chemical properties

ERROR (combo_app(0))!		
Odour:	Slightly	
Odour threshold:	No data available	
PH:	7.8 ~ 9.2 at 20 °C	
Melting point / freezing point:	No data available	
Initial boiling point and boiling range:	No data available	
Solid/gas flammability:	No data available	
Upper/lower flammability or explosive limits:	No data available	
Vapour density:	No data available	
Flash point:	Does not flash.	
Evaporation rate:	No data available	
Vapour pressure:	No data available	
T4414		



ERROR (combo_rd)! Solubility in water: Solubility in oil: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Miscibility: Fat Solubility: Conductivity: Substance Groups relevant properties

Complete No data available No data available No data available No data available < 5 mPa·s at 20 °C No data available No data available 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

Toxicological information of the product:

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative f) carcinogenicity:

Does not contain carcinogens (Ref. 1)

g) reproductive toxicity:

Does not contain reproductive toxicity and developmental toxic substances (Ref. 2) Toxicological information of the main substances found in the product:

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.

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.

2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3

a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rat > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Mild irritant

c) serious eye damage/irritation:

AUS, T44J4_en

Version 8.0 Revison 1.0



Test: Eye Irritant - Species: Rabbit Highly irritating

d) respiratory or skin sensitisation:

Test: Skin Sensitisation - Route: LLNA - Species: Mouse Sensitiser

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium Negative

If not differently specified, the information listed below must be considered as N.A.::

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.

12. Ecological information

Ecotoxicity Adopt good working practices, so that the product is not released into the environment. Not classified for environmental hazards Based on available data, the classification criteria are not met 2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish = 36 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia = 88 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae = 15 mg/l - Duration h: 72 c) Bacteria toxicity: Endpoint: EC50 - Species: activated sludge = 630 mg/l - Duration h: 0.5 Persistence and degradability No data available **Bioaccumulative potential** No data available Mobility in soil No data available Other adverse effects None

13. Disposal considerations

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, if applicable No data available Environmental hazards No Special precautions for user

AUS, T44J4_en Page n. 5 of 7



No data available Additional Information No data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals 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.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

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

Insert further consulted bibliography

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)
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)

Ref. 2 ·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 ·TRGS 905, Verzeichnis krebserzeugender, keimzell mutagener oder reproduktionstoxischer Stoffe (AGS: Committee on Hazardous Substances, Germany)

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

AUS, T44J4_en Page n. 6 of 7



CLP: DNEL: EINECS: GefStoffVO: GHS: IATA:	Society). Classification, Labeling, Packaging. Derived No Effect Level. European Inventory of Existing Commercial Chemical Substances. Ordinance on Hazardous Substances, Germany. Globally Harmonized System of Classification and Labeling of Chemicals. 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.
SUSMP:	SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons