

1. IDENTIFICATION

IDENTIFICATION			
Product identifier			
Mixture identification:			
Trade name:	Ink, T05A3		
Recommended use of the chemical and restrictions on use			
Recommended use:			
Ink	for inkjet printing		
Details of the supplier of the	, , ,		
	Salely Uala Sheel		
Company:			
EP	SON AMERICA Inc.		
384	40 Kilroy Airport Way		
Loi	ng Beach, CA 90806		
	ited States		
Telephone :	562.276.1369		
Emergency phone number			
Telephone :	562.276.1369		
	002.270.1000		

2. HAZARD(S) IDENTIFICATION

Classification of the chemical The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200). Label elements The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200). Hazard pictograms: None Hazard statements: None Precautionary statements: None **Special Provisions:** None Hazards not otherwise classified identified during the classification process: None Additional classification information NFPA rating: HMIS rating: * 0 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substances

No Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

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Qty	Name	Ident. Numb	er	Classification
50% ~ 65%	Water	CAS: EC:	7732-18-5 231-791-2	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
5% ~ 7%	Glycerol	CAS: EC:	56-81-5 200-289-5	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
1% ~ 3%	2-[2-(2-butoxyethoxy)et hoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	CAS: EC:	603-183-00-0 143-22-6 205-592-6 01-21194751 07-38	A.3/1 Eye Dam. 1 H318
0.25 % ~ 0.5%	2,4,7,9-tetramethyldec- 5-yne-4,7-diol	CAS: EC: REACH No.:	126-86-3 204-809-1 01-21199543 90-39	 A.3/1 Eye Dam. 1 H318 A.4.2/1 Skin Sens. 1 H317 US-HAE/C3 Aquatic Chronic 3 H412
0.1% ~ 0.25 %	Triethanol amine	CAS: EC:	102-71-6 203-049-8	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

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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.

7. HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes, inhalation of vapours and mists. Do not use on extensive surface areas in premises where there are occupants. 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 - 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-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6 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 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 Eye protection: Use personal protective equipment as required.

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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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Magenta Liquid
Odour:	Slightly
Odour threshold:	No data available
pH:	8.3 ~ 9.3 at 20 °C
Melting point / freezing point:	-25.2 °C
Initial boiling point and boiling range:	No data available
Flash point:	Does not flash until 211 ° F/ 99.5 °C (closed cup
•	method, ASTM D 3278)
Evaporation rate:	No data available
Solid/gas flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.086 at 20 °C
Solubility in water:	Soluble
Solubility in oil:	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	< 5 mPa⋅s at 20 °C
Miscibility:	No data available
Fat Solubility:	No data available
Conductivity:	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:

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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.
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,
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:
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
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.
1909.
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.
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

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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:

sodium nitrite is listed in TSCA §5(a) - Final SNUR.

Isothiazolinone derivatives is listed in TSCA §5(a) - Proposed SNUR.

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.

- 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.
- USA State specific regulations California Proposition 65

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Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

No substances listed.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether. Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether.

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.

Safety Data Sheet dated August 23, 2019, Revision: 2.0 Sections modified from the previous revision:

3. COMPOSITION/INFORMATION ON INGREDIENTS

6. ACCIDENTAL RELEASE MEASURES

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION

Main bibliographic sources:

- Ref. 1 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)
 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)

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).

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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
ano.	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:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods
THE.	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).