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## 1. IDENTIFICATION

Product identifier  
Mixture identification:  
Trade name: Ink Cartridge, T8045

Recommended use of the chemical and restrictions on use  
Recommended use:  
Ink for inkjet printing

Details of the supplier of the safety data sheet  
Company:  
EPSON AMERICA Inc.  
3840 Kilroy Airport Way  
Long Beach, CA 90806  
United States

Telephone : 562.276.1369  
Emergency phone number  
Telephone : 562.276.1369

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## 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:



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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances  
No

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

## Safety Data Sheet

Qty	Name	Ident. Number	Classification
65% ~ 80%	Water	CAS: 7732-18-5 EC: 231-791-2	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
10% ~ 12.5 %	Glycerol	CAS: 56-81-5 EC: 200-289-5	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
1% ~ 3%	Triethanol amine	CAS: 102-71-6 EC: 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 (CO<sub>2</sub>).

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 all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.  
Remove persons to safety.  
Use appropriate respiratory protection.  
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 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Glycerol - CAS: 56-81-5

- OEL Type: OSHA - TWA: 5 mg/m<sup>3</sup> - Notes: Respirable dust

- OEL Type: OSHA - TWA: 15 mg/m<sup>3</sup> - Notes: Total dust

Triethanol amine - CAS: 102-71-6

- OEL Type: ACGIH - TWA(8h): 5 mg/m<sup>3</sup>

### DNEL Exposure Limit Values

No data available

### PNEC Exposure Limit Values

No data available

### Appropriate engineering controls:

None

### Individual protection measures

#### 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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:

Cyan Liquid

Odour:

Slightly

Odour threshold:

No data available

PH:

8.6 ~ 10 at 20 °C

Melting point / freezing point:

No data available

Initial boiling point and boiling range:

No data available

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Flash point:	Does not flash until 212 °F/ 100 °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:	No data available
Solubility in water:	Complete
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

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### 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.

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### 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.

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.

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## 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

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## 13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

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

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## 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

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## 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: no substances listed.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

- No substances listed.
- CAA - Clean Air Act  
CAA listed substances:  
Glycerol is listed in CAA Section 111.
- CWA - Clean Water Act  
CWA listed substances:  
None.
- USA - State specific regulations
- California Proposition 65  
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:  
No substances listed.
- Pennsylvania Right to know  
Substance(s) listed under Pennsylvania Right to know:  
No substances listed.

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## 16. OTHER INFORMATION

Safety Data Sheet dated March 12, 2019, Revision: 2.0  
Sections modified from the previous revision:  
8. EXPOSURE CONTROLS/PERSONAL PROTECTION  
11. TOXICOLOGICAL 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

## Safety Data Sheet

	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:	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 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).