1. IDENTIFICATION

Product identifier
Mixture identification: Ink Cartridge, T834B

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

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:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances
No

Mixtures
Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:
### 4. FIRST-AID MEASURES

**Description of necessary measures**

<table>
<thead>
<tr>
<th>In case of skin contact:</th>
<th>Wash with plenty of water and soap.</th>
</tr>
</thead>
<tbody>
<tr>
<td>In case of eyes contact:</td>
<td>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</td>
</tr>
<tr>
<td>In case of Ingestion:</td>
<td>Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.</td>
</tr>
<tr>
<td>In case of Inhalation:</td>
<td>Remove casualty to fresh air and keep warm and at rest.</td>
</tr>
</tbody>
</table>

**Most important symptoms/effects, acute and delayed**

<table>
<thead>
<tr>
<th>None</th>
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**Indication of immediate medical attention and special treatment needed**

<table>
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<tr>
<th>None</th>
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</table>

**Treatment:**

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<tr>
<th>None</th>
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</table>

### 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:**

<table>
<thead>
<tr>
<th>None</th>
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**Explosive properties:**

<table>
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<tr>
<th>No data available</th>
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**Oxidizing properties:**

<table>
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<tr>
<th>No data available</th>
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</table>

**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.

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
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

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance and colour: Green Liquid
Odour: Slightly
Odour threshold: No data available
PH: 9.7 ~ 11.1 at 20 °C
Melting point / freezing point: No data available
Initial boiling point and boiling range: 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


Triethanol amine - CAS: 102-71-6

a) acute toxicity:

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: no substances listed.
- CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

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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.

16. OTHER INFORMATION

Safety Data Sheet dated March 12, 2019, Revision: 3.0
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)
· MAK und BAT Werte Liste (DFG: German Research Foundation)
· TRGS 905, Verzeichnis krebserzeugender, keimzell mutagener oder reproduktionstoxischer Stoffe (AGS: Committee on Hazardous Substances, Germany)

· 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).

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).


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

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).