1. IDENTIFICATION
   Product identifier
   Mixture identification:
   Trade name: 302XL High Capacity Yellow Cartridge
   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
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.
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 - 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 - 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

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.
   - Respiratory protection:
     - Not needed for normal use.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and colour</td>
<td>Yellow Liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Slightly</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
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<tr>
<td>pH</td>
<td>8.7 ~ 9.7 at 20 °C</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Does not flash until 212 °F / 100 °C (closed cup method, ASTM D 3278)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Solid/gas flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
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</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
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<tr>
<td>Solubility in water</td>
<td>Complete</td>
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<tr>
<td>Solubility in oil</td>
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</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
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<tr>
<td>Viscosity</td>
<td>&lt; 5 mPa·s at 20 °C</td>
</tr>
<tr>
<td>Miscibility</td>
<td>No data available</td>
</tr>
<tr>
<td>Fat Solubility</td>
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</tr>
<tr>
<td>Conductivity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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:
é) germ cell mutagenicity:
    Test: Reproductive Toxicity - 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
Safety Data Sheet

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

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.
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
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.

Safety Data Sheet dated May 2, 2017, Revision: 2.0
Sections modified from the previous revision:
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
9. PHYSICAL AND CHEMICAL PROPERTIES
11. TOXICOLOGICAL INFORMATION
15. REGULATORY INFORMATION
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.
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.
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).