Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier: EPSON Ink Pack, HDK T741X

1.2. Relevant identified uses of the substance or mixture and uses advised against:
Identified uses; Ink for Inkjet Printing

1.3. Details of the supplier of the safety data sheet:
Manufacturer/Distributor: SEIKO EPSON CORPORATION
Address: 80 Harashinden, Hirooka, Shiojiri-shi, Nagano-ken, 399-0785 JAPAN
e-mail: msds_hro@exc.epson.co.jp
Date Prepared: 23 February 2015
Revision: A

1.4. Emergency telephone: +81-263-52-2552 (Mon-Fri, 9AM-5PM JST)

SECTION 2: Hazards identification

2.1. Classification of the mixture:
2.1.1 Classification (EC) No 1272/2008; SKIN SENSITIZER; Hazard category 1, H317
2.1.2 Classification (1999/45/EC); Irritant with Xi; R43

2.2. Label elements: Label in Accordance with (EC) No 1272/2008

Symbols; Warning
Hazard statements; H317 May cause an allergic skin reaction.
Precautionary statements;
P261 Avoid breathing dust/mist/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contains: C.I. Disperse Blue 360

2.3. Other hazards:
Classification (PBT, vPvB (EC)No1907/2006); No data available

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance / Mixture: Mixture (Ink Composition)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ink Composition</strong></td>
</tr>
<tr>
<td>Water</td>
</tr>
<tr>
<td>Glycerols</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1. Description of first aid measures:

4.1.1. Eyes: Immediately flush with room temperature, low pressure and clean water for at least 15 minutes. Seek medical attention if eye irritation continues.

4.1.2. Skin: Wash surface areas with soap and water. Wash soiled clothing before wearing again. Consult a physician if irritation continues.

4.1.3. Inhalation: Remove subject to ventilated fresh air. If not breathing, give artificial respiration right away. If breathing is difficult, give oxygen. Seek immediate medical attention.

4.1.4. Ingestion: Seek medical advice; and attention if stomach continues to be upset.

4.2. Most important symptoms and effects, both acute and delayed:

Skin: Ink contact with skin may cause irritation, swelling or redness.

4.3. Indication of any immediate medical attention and special treatment needed: Not necessary

SECTION 5: Fire-fighting measures

5.1. Extinguishing Media

5.1.1. Suitable extinguishing media: Dry chemical, carbon dioxide or water.

5.1.2. Unsuitable extinguishing media: None

5.2. Special hazards arising from the substance or mixture: None

5.3. Advice for firefighters: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel: Eye or Skin protection required during clean-up. Use proper ventilation.

6.1.2. For emergency responders: None

6.2. Environmental precautions: Do not release to sewer, surface- or ground-water.

6.3. Methods and material for containment and cleaning up

6.3.1. Advice on how to contain a spill: Use sponges to wipe-up ink.

6.3.2. Advice how to clean-up a spill: Rinse area with damp cloth. Place waste in closed container for disposal. Wash hands with soap and water.

6.3.3. Any other information: Do not dispose of waste to the sewer.

6.4. Reference to other sections: None

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. Recommendations: Keep out of reach of children and do not drink ink.

7.1.2. Advice on general occupational hygiene: Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water.
7.2. Conditions for safe storage, including any incompatibilities:
Do not store in high or freezing temperatures. Keep out of direct sunlight. Do not store with oxidizing agents or explosives.

7.3. Specific end use(s): Not specified

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:
Glycerol (CAS No. 56-81-5)
Italy: OELs
The 8-Hour TWA is: 10 mg/m\(^3\) as mist
US: ACGIH Threshold Limit Values (2008)
The 8-Hour Exposure Limit (ELV-TWA) is: 10 mg/m\(^3\) as mist
OSHA Table Z-1-A (29 CFR 1910.1000)(Revoked June 30, 1993)
OSHA Z-1 Permissible Exposure Limits (PEL) is: 5 mg/m\(^3\) as mist, respirable fraction
OSHA Z-1 Permissible Exposure Limits (PEL) is: 15 mg/m\(^3\) as mist, total dust
Australia: OELs
The Time Weighted Average is: 10 mg/m\(^3\) as mist (inspirable dust)

8.2. Exposure Controls
8.2.1. Appropriate engineering controls: Proper ventilation, in prevention
8.2.2. Individual protection measures, such as personal protective equipment
8.2.2.1. Use of personal protective equipment:
Wear suitable protective equipment.
8.2.2.2. Detailed specification on equipment to provide adequate and suitable protection
(a) eye/face protection: Wear suitable eye/face protection.
(b) skin protection: hand protection & others:
Wear suitable glove and protective clothing.
(c) respiratory protection: Wear suitable respiratory protective equipment.
(d) thermal hazards: Not required under suitable use.

8.2.3. Environmental exposure controls: Not established

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance: Black Liquid
Odour: Slightly
Odour threshold: No data available
pH: 7.5 ~ 8.7 at 20°C
Melting point / freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: Not detected until 100°C (Closed cup, ASTM D3278)
Evaporation rate: No data available
Flammability (solid, gas): Not applicable (liquid)
Upper/lower flammability or explosive limits: No data available
Vapor pressure: No data available
Vapor density: No data available
Relative density: No data available
Solubility(ies): Complete
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: Less than 5 mPa·s at 20°C
Explosive properties: None
Oxidizing properties: None

9.2. Other information: None
SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal temperature

10.2. Chemical stability
Stable under normal temperature

10.3. Possibility of hazardous reactions
None

10.4. Conditions to avoid
High and freezing temperatures

10.5. Incompatible materials
Oxidizers and explosives

10.6. Hazardous decomposition products
Acrolein (CAS #107-02-8); When glycerols is heated over 300°C, it will decompose into acrolein.

SECTION 11: Toxicological information

Acute toxicity: Not meet the criteria for classification according to EU Directive 1999/45/EC
Irritation: Eye: Not meet the criteria for classification according to EU Directive 1999/45/EC
          Skin: Not meet the criteria for classification according to EU Directive 1999/45/EC
Corrosivity: Not meet the criteria for classification according to EU Directive 1999/45/EC
Sensitisation: Skin: Xi; R43 for classification according to EU Directive 1999/45/EC
Carcinogenicity: Not met the criteria for classification according to EU Directive 1999/45/EC
                Not contain any substances listed in IARC Monographs (1,2A and 2B)
Mutagenicity: Not meet the criteria for classification according to EU Directive 1999/45/EC
               Positive (by Ames test)
Toxicity for reproduction: Not meet the criteria for classification according to EU Directive 1999/45/EC

SECTION 12: Ecological information

12.1. Toxicity: No data available
12.2. Persistence and degradability: No data available
12.3. Bioaccumulative potential: No data available
12.4. Mobility in soil: No data available
12.5. Results of PBT and vPvB assessment: Has not carried out PBT and vPvB assessment
12.6. Other adverse effects: No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods: Disposal should be in accordance with federal, state, and local requirements.

SECTION 14: Transport information

14.1. UN number: Not applicable
14.2. UN proper shipping name: Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group: Not applicable
14.5. Environmental hazards: Not applicable
14.6. Special precautions for user: Not applicable
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Information:
  Regulation (EC) No 850/2004: Is not subject
  Regulation (EC) No 689/2008: Is not subject

US Information:
  TSCA Section 4(a) Final Test Rules Regulated: Not regulated
  TSCA Section 5 Significant New Use Rule Regulation: Not regulated
TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR): Not regulated
TSCA Section 12(b) One-Time Export Notification Regulated: Not regulated
California Proposition 65: Not regulated

Canada Information:
WHMIS Controlled Product: Not available

Australia Information:
Statement of Hazardous Nature: Classified as Irritant according to criteria of NOHSC

New Zealand Information:
Hazardous Substances and New Organisms Act 1996:
Meet to Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006 (HSR002670)

15.2. Chemical safety assessment: This ink has not carried out any Chemical Safety Assessment yet.

SECTION 16: Other information
List of relevant R-phrases:
R-11 Highly flammable
R-36 Irritating to eyes
R-43 May cause sensitization by skin contact
R-48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed
R-53 May cause long-term adverse effects in the aquatic environment

List of relevant Hazard statements:
H225 Highly flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H413 May cause long lasting harmful effects to aquatic life.

This “Safety Data Sheet” contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It is subject to revision from time to time. EPSON does not warrant the completeness or accuracy of the information contained herein.