

1. IDENTIFICATION Product identifier Mixture identification: Trade name: Ink Cartridge, T913A Other means of identification: Trade code: 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 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:



Substances

No Mixtures

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

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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 (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.

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. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contamined clothing should be changed before entering eating areas. 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 - Notes: PEL, as mist, respirable fraction - OEL Type: OSHA - LTE: 15 mg/m3 - Notes: PEL, as mist, total dust **DNEL Exposure Limit Values** No data available **PNEC Exposure Limit Values** No data available Appropriate engineering controls: None Individual protection measures Eve 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. Thermal Hazards: None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Odour: Odour threshold: Orange Liquid Slightly No data available

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pH: Melting point / freezing point: Initial boiling point and boiling range: Flash point:	8.6 ~ 10 at 20 °C No data available No data available 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

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 mixture:

e) germ cell mutagenicity:

Test: Mutagenesis - 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

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.

12. ECOLOGICAL INFORMATION

Ecotoxicitv

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 No substances listed.

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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 February 6, 2017, Revision: 1.0 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).
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

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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).