

1. Identification

GHS Product identifier
Mixture identification:
Trade name: Ink Cartridge, T7681

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

Supplier's details
Supplier in Australia:
EPSON Australia Pty Limited
3 Talavera Road, North Ryde, NSW 2113, Australia
(02) 8899 3666 www.epson.com.au

Supplier in New Zealand:
EPSON New Zealand Pty Limited
7-9 Fanshawe Street, Auckland 1010, New Zealand
(09) 366 6855 www.epson.co.nz

Date: 13/06/2020
Revision: 2.0

Emergency phone number
Australia (02) 8899 3666 (Mon-Fri, 9AM-5PM, AEST)
New Zealand (09) 366 6855 (Mon-Fri, 9AM-5PM, NZST)

2. Hazard identification

Classification of the Hazardous chemical
The product is not classified as dangerous according to GHS - Fifth revised edition.
GHS label elements, including precautionary statements
The product is not classified as dangerous according to GHS - Fifth revised edition.
Hazard pictograms:
None
Hazard statements:
None
Precautionary statements:
None
Special Provisions:
None
Other hazards which do not result in a classification
No other hazards

3. Composition/information on ingredients

Substances
No

Mixtures
Hazardous components within the meaning of GHS and related classification:

| 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 GHS - Fifth revised edition. |
| 10% ~ 12.5% | Glycerol | CAS: 56-81-5 EC: 200-289-5 | The product is not classified as dangerous according to GHS - Fifth revised edition. |
| 1% ~ 3% | Carbon black | CAS: 1333-86-4 EC: 215-609-9 | The product is not classified as dangerous according to GHS - Fifth revised edition. |
| 1% ~ 3% | Triethanol amine | CAS: 102-71-6 | The product is not classified as |

| | | | |
|--|--|---------------|---|
| | | EC: 203-049-8 | dangerous according to GHS - Fifth revised edition. |
|--|--|---------------|---|

4. First-aid measures

Description of necessary first-aid 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.

Symptoms caused by exposure

None

Medical attention and special treatment

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 persons to safety.

See protective measures under point 7 and 8.

Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

Methods and material 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 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.

8. Exposure controls/personal protection

Control parameters – exposure standards, biological monitoring
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
Carbon black - CAS: 1333-86-4
- OEL Type: ACGIH - TWA(8h): 3 mg/m³
- OEL Type: OSHA - TWA: 3.5 mg/m³
- OEL Type: JSOH - TWA: 1 mg/m³ - Notes: as Class 2 Dusts (Respirable dust)
- OEL Type: JSOH - TWA: 4 mg/m³ - Notes: as Class 2 Dusts (Total dust)
- Notes: as 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, such as personal protective equipment (PPE)
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
Chemical Controls for Australian Printers
• Minimise skin contact with inks and cleaning chemicals.
• Ensure that ventilation equipment is maintained and working effectively, to minimise airborne exposures.

9. Physical and chemical properties

| | |
|---|--|
| Appearance and colour: | Black Liquid |
| Odour: | Slightly |
| Odour threshold: | No data available |
| pH: | 8.2 ~ 9.6 at 20 °C |
| Melting point / freezing point: | No data available |
| Initial boiling point and boiling range: | No data available |
| Solid/gas flammability: | No data available |
| Upper/lower flammability or explosive limits: | No data available |
| Vapour density: | No data available |
| Flash point: | Does not flash until 100 °C / 212 ° F (closed cup method, ASTM D 3278) |
| Evaporation rate: | No data available |

| | |
|--|--------------------|
| Vapour pressure: | No data available |
| Relative density: | 1.04 at 20 °C |
| 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 |
| Substance Groups relevant properties | 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:
Components do not come under carcinogens (Ref. 1), except for Carbon black
- 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.

Carbon black - CAS: 1333-86-4

a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rabbit > 3 g/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15

Test: LD50 - Route: Oral - Species: Rat > 15400 mg/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15

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.

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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.

Carbon black - CAS: 1333-86-4

With excessive exposure, carbon black has been listed as a possible human carcinogen. However, as engineered within this ink cartridge, emissions to air of carbon black during normal printing use have not been found. IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens.

If not differently specified, the information listed below must be considered as N.A.::

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

12. Ecological information

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

Ink

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

None

13. Disposal considerations

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, if applicable

No data available

Environmental hazards

No

Special precautions for user

No data available

Additional Information

No data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals

Australia Information:

Statement of Hazardous Nature:

Not classified as hazardous according to criteria of NOHSC

New Zealand Information:

Hazardous Substances and New Organisms Act 1996:

Not regulated

16. Other information

Paragraphs modified from the previous revision:

1. Identification
3. Composition/information on ingredients
8. Exposure controls/personal protection
9. Physical and chemical properties
12. Ecological information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

Insert further consulted bibliography

- Ref. 1 ·IARC Monographs on the Evaluation Carcinogenic Risks to Humans (IARC: International Agency for Research on Cancer)
- 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)
- National Toxicology Program (NTP) Report on Carcinogens (USA)
- 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)

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.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This Safety Data Sheet cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

Safety Data Sheet

| | |
|-------------|---|
| 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. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| 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. |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWA: | Time-weighted average |
| WGK: | German Water Hazard Class. |
| SUSMP: | SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons |