

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Mixture identification: Trade name: Ink Cartridge, Red, T3247 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.3. Details of the supplier of the safety data sheet Company: EPSON EUROPE B.V. Azie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam Zuidoost The Netherlands Phone number: +31-20-314-5000 Competent person responsible for the safety data sheet: chemicals@epson-europe.com Date: 30/06/2016 Revision: 1.0 1.4. Emergency telephone number Phone number: +31-20-314-5000 Giftnotruf Berlin; +48 (0) 30 30686 790 **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture EC regulation criteria 1272/2008 (CLP) The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Adverse physicochemical, human health and environmental effects: No other hazards 2.2. Label elements The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Hazard pictograms: None Hazard statements: None Precautionary statements: None **Special Provisions:** EUH210 Safety data sheet available on request. EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction. Special provisions according to Annex XVII of REACH and subsequent amendments: None 2.3. Other hazards vPvB Substances: None - PBT Substances: None Other Hazards: No other hazards **SECTION 3: Composition/information on ingredients** 3.1. Substances No 3.2. Mixtures Hazardous components within the meaning of the CLP regulation and related classification:

Ĩ	Qtv	Name	Ident. Number	Classification
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65% ~ 80%	Water	CAS: EC:	7732-18-5 231-791-2	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
5% ~ 7%	Glycerol	CAS: EC:	56-81-5 200-289-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
1% ~ 3%	Triethanol amine	CAS: EC:	102-71-6 203-049-8	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
< 0.05%	1,2-benzisothiazol-3(2 H)-one; 1,2-benzisothiazolin-3- one	Index number: CAS: EC:	613-088-00-6 2634-33-5 220-120-9	<ul> <li>3.1/4/Oral Acute Tox. 4 H302</li> <li>3.2/2 Skin Irrit. 2 H315</li> <li>3.3/1 Eye Dam. 1 H318</li> <li>3.4.2/1-1A-1B Skin Sens.</li> <li>1,1A,1B H317</li> <li>4.1/A1 Aquatic Acute 1 H400</li> </ul>

#### **SECTION 4: First aid measures**

- 4.1. Description of 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.

- 4.2. Most important symptoms and effects, both acute and delayed
  - None
- 4.3. Indication of any immediate medical attention and special treatment needed Treatment:

None

#### **SECTION 5: Firefighting measures**

- 5.1. Extinguishing media
  - Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons: None in particular.

- 5.2. Special hazards arising from the substance or mixture Do not inhale explosion and combustion gases. Burning produces heavy smoke.
- 5.3. Advice for firefighters
  - 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.



#### **SECTION 6: Accidental release measures**

- 6.1. Personal precautions, protective equipment and emergency procedures Wear personal protection equipment. Remove persons to safety.
  - See protective measures under point 7 and 8.
- 6.2. 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
- 6.3. Methods and material for containment and cleaning up
- Wash with plenty of water.
- 6.4. Reference to other sections
  - See also section 8 and 13

#### **SECTION 7: Handling and storage**

- 7.1. 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.
- 7.2. 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.
  7.3. Specific end use(s) None in particular

#### **SECTION 8: Exposure controls/personal protection**

8.1. 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
8.2. Exposure controls
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.
Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None



### **SECTION 9: Physical and chemical properties**

TON 9. Filysical and chemical properties		
9.1. Information on basic physical and chemical prop	perties	
Appearance and colour:	Red Liquid	
Odour:	Slightly	
Odour threshold:	No data available	
pH:	8.5 ~ 9.1 at 20 °C	
Melting point / freezing point:	-21.9 °C	
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:	No data available	
Evaporation rate:	No data available	
Vapour pressure:	No data available	
Relative density:	1.02788 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	
Explosive properties:	No data available	
Oxidizing properties:	No data available	
9.2. Other information		
Miscibility:	No data available	
Fat Solubility:	No data available	
Conductivity:	No data available	

## **SECTION 10: Stability and reactivity**

- 10.1. Reactivity
- Stable under normal conditions 10.2. Chemical stability
- Stable under normal conditions
- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid Stable under normal conditions.
- 10.5. Incompatible materials None in particular.
- 10.6. Hazardous decomposition products None.

### **SECTION 11: Toxicological information**

- 11.1. Information on toxicological effects Toxicological information of the mixture:
  - No data available

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. - Notes: BEHAVIORAL: HEADACHE GASTROINTESTINAL: NAUSEA OR VOMITING 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. - Notes: GASTROINTESTINAL: "HYPERMOTILITY, DIARRHEA" KIDNEY, URETER, AND BLADDER: OTHER CHANGES BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD

If not differently specified, the information required in Regulation (EU) 2015/830 listed below must be considered as 'No data available'.:

- 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.

### **SECTION 12: Ecological information**

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. 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 vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects None

### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods Recover if possible. In so doing, comply with the local and national regulations currently in force.

#### **SECTION 14: Transport information**

- 14.1. UN number
  - Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name No data available
- 14.3. Transport hazard class(es) No data available

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- 14.4. Packing group No data available
- 14.5. Environmental hazards No data available
- 14.6. Special precautions for user No data available
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code No data available

### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) 2015/830 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: No restriction. Restrictions related to the substances contained: No restriction. Where applicable, refer to the following regulatory provisions : Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments. Regulation (EC) nr 648/2004 (detergents). 1999/13/EC (VOC directive)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):

No data available

15.2. Chemical safety assessment No

### **SECTION 16: Other information**

Full text of phrases referred to in Section 3:

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B



Aquatic Acute	1 4.1/A1	Acute aquatic hazard, category 1		
I his documen Main bibliogra		ent person who has received appropriate training.		
		Data and Information Network - Joint Research Centre,		
Commis	ssion of the European Comm	unities		
		OF INDUSTRIAL MATERIALS - Eight Edition - Van		
	nd Reinold			
	Appendix 1 urther consulted bibliography			
		on our state of knowledge at the above-specified date. It		
		onstitutes no guarantee of particular quality.		
		information is appropriate and complete with respect to		
the specific us				
This Safety Da	ata Sheet cancels and replac	es any preceding release.		
ADR:		erning the International Carriage of		
CAS:	Dangerous Goods by Road			
CAS: Chemical Abstracts Service (division of the American Chemical Society).				
CLP:	Classification, Labeling, Packaging.			
DNEL:	Derived No Effect Level.			
EINECS:		ting Commercial Chemical Substances.		
GefStoffVO:	Ordinance on Hazardous S			
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.			
IATA:	International Air Transport Association.			
IATA-DGR:	Dangerous Goods Regulat	ion 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 Cod	e for Dangerous Goods.		
INCI:	International Nomenclature of Cosmetic Ingredients.			
KSt:	Explosion coefficient.			
LC50:	Lethal concentration, for 50 percent of test population.			
LD50: LTE:	Lethal dose, for 50 percent of test population.			
PNEC:	Long-term exposure. Predicted No Effect Concentration.			
RID:	Regulation Concerning the International Transport of Dangerous Goods			
	by Rail.	international transport of Daligorous Coods		
STE:	Short-term exposure.			
STEL:	Short Term Exposure limit.			
STOT:	Specific Target Organ Toxi	city.		
TLV:	Threshold Limiting Value.	a Time Meighted Average 9 hour day		
TWATLV:	(ACGIH Standard).	he Time Weighted Average 8 hour day.		
WGK: German Water Hazard Class.				