

SECTION 1: Identification of the sub	stance/mixtur	e and of the	a company/unde	rtaking
1.1. Product identifier	Stance/mixtur		, company/unde	laking
Mixture identification:				
Trade name:	Ink Cartridge,	Blue,	T0549	
1.2. Relevant identified uses of the	substance or mixt	ture and uses	advised against	
Recommended use:	int printing			
1.3. Details of the supplier of the sa	jet printing			
Company:	Tely uala sheel			
	UROPE B.V.			
		Hoogoorddre	ef 5,1101 BA Amst	erdam
	The Netherlands			
Phone nu	mber:	+31-20-	314-5000	
Competent person responsib	le for the safety d	ata sheet:		
chemicals	@epson-europe.	com		
Date:	18/10/2016			
Revision:	1.0			
1.4. Emergency telephone number				
Phone number:	+31-20-314-50			
Giftnotruf Berlin;	+48 (0) 30 30	0686 790		
SECTION 2: Hazards identification				
2.1. Classification of the substance	or mixturo			
EC regulation criteria 1272/20				
The product is not clas		us according	to Regulation FC 1	272/2008
(CLP).	enied de dangere			
Adverse physicochemical, hu	man health and e	environmenta	effects:	
No other hazards				
2.2. Label elements				
The product is not classified a	as dangerous acc	ording to Ree	gulation EC 1272/20	008 (CLP).
Hazard pictograms:				
None				
Hazard statements: None				
Precautionary statements:				
None				
Special Provisions:				
EUH210 Safety data sl	heet available on	request.		
EUH208 Contains 1,2-	benzisothiazol-3(2H)-one; 1,	2-benzisothiazolin-3	3-one. May
produce an allergic rea				
Special provisions according	to Annex XVII of	REACH and	subsequent amend	ments:
None				
2.3. Other hazards				
vPvB Substances: None - PB	ST Substances: N	one		
Other Hazards: No other hazards				
SECTION 3: Composition/information 3.1. Substances	on on ingredier	nts		
No				
3.2. Mixtures				
Hazardous components withi	n the meaning of	the CLP regu	lation and related of	classification:



Qty	Name	Ident. Num	ber	Classification	
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).	
12.5% ~ 15%	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		

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.

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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

- 9.1. Information on basic physical and chemical properties Appearance and colour: Violet Liquid Slightly Odour: Odour threshold: No data available at 20 °C 8.4 ~ 9 pH: Melting point / freezing point: -11 °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: Evaporation rate: No data available Vapour pressure: No data available Relative density: 1.045 at 20 °C Complete Solubility in water: Solubility in oil: No data available
- Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscositv: Explosive properties: Oxidizing properties: 9.2. Other information
- Miscibility: Fat Solubility: Conductivity:

Does not flash until 100 °C / 212 ° F (closed cup method, ASTM D 3278) No data available No data available No data available < 5 mPa⋅s at 20 °C No data available No data available

No data available No data available 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:
 - a) acute toxicity:
 - Test: LD50 Route: Oral Species: Rat > 2500 mg/kg
 - Test: LD50 Route: Dermal Species: Rat > 2000 mg/kg b) skin corrosion/irritation:
 - Test: Skin Irritant Species: Rabbit Non-irritant

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c) serious eye damage/irritation: Test: Eye Irritant - Species: Rabbit Minimal irritant d) respiratory or skin sensitisation: Test: Skin Sensitisation - Route: LLNA - Species: Mouse Non-sensitiser 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. - 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;
- i) 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

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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
- 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

This safety data sheet has been completely updated in compliance to Regulation 2015/830. 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

CCNL - Appendix 1

Insert further consulted bibliography

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.

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.	
LTE: Long-term exposure.	
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).
WGK:	German Water Hazard Class.