

SECTION 1	· Identification	of the sub	stance/mixtur	e and of th	e compa	any/undertaking
	roduct identifier		Stanoc/mixtur		ie compe	
	Mixture identifica	tion:				
	Trade name:		Ink Cartridge,	Matte Bla	ck, 220	T5448
	elevant identified Recommended ι		ubstance or mixt	ure and use	s advised	against
		Ink for inkje				
	etails of the supp Company:	lier of the safe	ety data sheet			
		EPSON EL	JROPE B.V.			
			ng, Atlas ArenA, he Netherlands	Hoogoorddr	eef 5,110	1 BA Amsterdam
		Phone num	nber:	+31-20	-314-5000)
	Competent person responsible for the safety data sheet: chemicals@epson-europe.com					
	Date:		30/06/2016			
	Revision:		1.0			
	mergency telepho	one number	. 04 00 044 50			
	Phone number: Giftnotruf Berlin;		+31-20-314-50			
	Ginnotrui Benin,		+40 (0) 50.50	000790		
	2: Hazards iden					
	lassification of the EC regulation cri					
				us accordino	n to Regu	lation EC 1272/2008
	(CLP).		and do dangero		gioritogu	
	Adverse physico No other h		nan health and e	environmenta	al effects:	
221;	abel elements	azarus				
	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).					
	Hazard pictogran	ns:				
	None	to:				
	Hazard statemer None	115.				
	Precautionary sta	atements.				
	None					
	Special Provision	IS:				
			eet available on			
		is according t	o Annex XVII of	REACH and	subseque	ent amendments:
	None					
	ther hazards vPvB Substances	Nono DPT	C Substanses: N	<u></u>		
	Other Hazards:	S. NULLE - PDI	Substances. In	one		
	No other h	azards				
SECTION 3	B: Composition	/informatio	n on ingredier	ite		
	ubstances	/internation	in on ingreater			
	No					
3.2. M	ixtures					
Hazardous components within the meaning of the CLP regulation and related classification:						
Qty	Name		dent. Number		Classific	ation



65% ~	Water	CAS:	7732-18-5	The product is not classified as
80%		EC:	231-791-2	dangerous according to
				Regulation EC 1272/2008 (CLP).
10% ~	Glycerol	CAS:	56-81-5	The product is not classified as
12.5%	-	EC:	200-289-5	dangerous according to
				Regulation EC 1272/2008 (CLP).
1% ~ 3%	1,1',1"-nitrilotripropan-2	Index	603-097-00-3	3.3/2 Eye Irrit. 2 H319
	-ol;	number:		• 5.5/2 Lye Intt. 211519
	triisopropanolamine	CAS:	122-20-3	
		EC:	204-528-4	
1% ~ 3%	2-[2-(2-butoxyethoxy)et	Index	603-183-00-0	较 3.3/1 Eye Dam. 1 H318
	hoxy]ethanol;	number:		
	TEGBE; triethylene	CAS:	143-22-6	
	glycol monobutyl ether	EC:	205-592-6	
		REACH No .:	01-21194751	
			07-38	

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).
 - 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

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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
 - 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether CAS: 143-22-6
 - Target: Fresh Water Value: 1.5 mg/l
 - Target: Freshwater sediments Value: 5.77 mg/kg
 - Target: Marine water Value: 0.15 mg/l
 - Target: Marine water sediments Value: 0.13 mg/kg
 - Target: Microorganisms in sewage treatments Value: 200 mg/l
- 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: Odour: Odour threshold: pH: Melting point / freezing point: Initial boiling point and boiling range: Solid/gas flammability: Upper/lower flammability or explosive limits: Vapour density: Flash point: Evaporation rate: Vapour pressure: Relative density: Solubility in water: Solubility in oil: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidizing properties: 9.2. Other information

Miscibility: Fat Solubility: Conductivity:

SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stabilityStable under normal conditions10.3. 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

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Black Liquid Slightly No data available 8.5 ~ 9.9 at 20 °C -12.1 °C No data available No data available No data available No data available > 120 °C / 248 ° F No data available No data available 1.074 at 20 °C Complete No data available 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



b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Mild irritant

- c) serious eye damage/irritation:
 - Test: Eye Irritant Species: Rabbit Minimal irritant
- d) respiratory or skin sensitisation:

Test: Skin Sensitisation - Route: Maximisation Assay - Species: Guinea pig 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

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6

a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rabbit = 3.54 ml/kg - Source: American Industrial Hygiene Association Journal. Vol. 23, Pg. 95, 1962. Test: LD50 - Route: Oral - Species: Rat = 5300 mg/kg - Source: Office of Toxic Substances Report. Vol. OTS,

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

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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

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Full text of phrases referred to in Section 3: H319 Causes serious eye irritation. H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2

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.

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.
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.

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WGK:

(ACGIH Standard). German Water Hazard Class.