

		of the sub	stance/mixtur	e and of th	ne company/undertak	ing
	duct identifier					
	lixture identificati	on:				
Т	rade name:		Ink Cartridge,	Yellow,	T1594	
	evant identified u ecommended us		ubstance or mixt	ture and use	es advised against	
		Ink for inkje				
	ails of the supplie ompany:		-			
			JROPE B.V.			
		Zuidoost Th	he Netherlands	•	reef 5,1101 BA Amsterda	m
		Phone num			-314-5000	
	ompetent persor		epson-europe.			
	ate:		30/06/2016			
	evision:		1.0			
	ergency telephor hone number:	ne number	+31-20-314-50			
	iftnotruf Berlin;		+31-20-314-50			
6	ntriotrui Denin,		+40 (0) $50.50$	5000790		
2.1. Cla	Hazards ident ssification of the	substance o				
E	C regulation crite					
	(CLP).		-		g to Regulation EC 1272/	2008
	dverse physicocl No other ha		nan nealth and e	environment	al effects:	
Т	•		s dangerous acc	ording to Re	egulation EC 1272/2008 (	CLP).
н	azard pictogram	S:				
u	None	<b>.</b> .				
П	azard statements None	5.				
Р	recautionary stat	ements.				
	None	emento.				
S	pecial Provisions	3:				
	None					
S	pecial provisions None	according to	o Annex XVII of	REACH and	subsequent amendment	s:
2.3. Oth	er hazards					
v	PvB Substances:	None - PBT	Substances: No	one		
0	ther Hazards:					
	No other ha	zards				
	Composition/	informatio	n <mark>on ingredie</mark> r	nts		
	ostances					
N						
3.2. Mix ц		nonte within	the meaning of	the CLD rea	ulation and related closes	ification
п	azaruous compo		the meaning of	UIE OLF IE	gulation and related class	incauon.
Qty	Name		dent. Number		Classification	
	4	1				



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).

### **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**

9.1. Information on basic physical and chemic	cal properties	
Appearance and colour:	Yellow Liquic	l
Odour:	Slightly	
Odour threshold: No data available		lable
pH:	8.8 ~ 9.9	at 20 °C
Melting point / freezing point:	-18.9 °C	



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 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.

No data available at 20 °C 1.02693 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



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
- 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

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### **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**

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.



	ance on Hazardous Substances, Germany. ally Harmonized System of Classification and Labeling of nicals
IATA: Intern	ational Air Transport Association.
IATA-DGR: Dang	erous Goods Regulation by the "International Air Transport
	ciation" (IATA).
	national Civil Aviation Organization.
ICAO-TI: Techr (ICAC	nical Instructions by the "International Civil Aviation Organization"
IMDG: Intern	ational Maritime Code for Dangerous Goods.
INCI: Intern	ational Nomenclature of Cosmetic Ingredients.
KSt: Explo	sion coefficient.
LC50: Letha	l concentration, for 50 percent of test population.
LD50: Letha	l dose, for 50 percent of test population.
LTE: Long-	term exposure.
PNEC: Predic	cted No Effect Concentration.
RID: Regul by Ra	lation Concerning the International Transport of Dangerous Goods
	-term exposure.
	Term Exposure limit.
	fic Target Organ Toxicity.
•	shold Limiting Value.
TWATLV: Thres	hold Limit Value for the Time Weighted Average 8 hour day. IH Standard).
	an Water Hazard Class.