

SECTION 1: Identification of the s	ubstance/mixtur	e and of the c	ompany	/undertaking
1.1. Product identifier				g
Mixture identification:				
Trade name:	Ink Cartridge,	Photo Black,	220	T6031
1.2. Relevant identified uses of th Recommended use:	ne substance or mix	ture and uses ac	lvised aga	ainst
	nkjet printing			
1.3. Details of the supplier of the Company:	safety data sheet			
EPSON	I EUROPE B.V.			
	ilding, Atlas ArenA, st The Netherlands	Hoogoorddreef	5,1101 BA	A Amsterdam
Phone	number:	+31-20-314	1-5000	
Competent person respons chemic	als@epson-europe.			
Date:	30/06/2016			
Revision:	1.0			
1.4. Emergency telephone number				
Phone number:	+31-20-314-50			
Giftnotruf Berlin;	+48 (0) 30 3	0686790		
SECTION 2: Hazards identification	n			
2.1. Classification of the substand				
EC regulation criteria 1272		н		EQ 4070/0000
The product is not cl	lassified as dangero	us according to	Regulatio	n EC 1272/2008
(CLP). Adverse physicochemical,	human health and a	nvironmental of	facte	
No other hazards				
2.2. Label elements				
The product is not classifie	d as dangerous acc	ording to Regula	ation EC 1	272/2008 (CLP).
Hazard pictograms:				
None				
Hazard statements:				
None				
Precautionary statements:				
None				
Special Provisions:	ahaat ayallahla an	request		
EUH210 Safety data EUH208 Contains 1			onzisothia	zolin-3-one May
produce an allergic r		211)-0116, 1,2-0	GHZISUUIR	azonn-5-one. May
Special provisions accordin None		REACH and sub	sequent a	amendments:
2.3. Other hazards				
vPvB Substances: None -	PBT Substances: N	one		
Other Hazards:				
No other hazards				
SECTION 3: Composition/informa 3.1. Substances	tion on ingredier	nts		
No				
3.2. Mixtures				
Hazardous components wi	thin the meaning of	the CLP regulat	ion and re	elated classification:

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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%	Carbon black	CAS: EC:	1333-86-4 215-609-9	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	 3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317 4.1/A1 Aquatic Acute 1 H400

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

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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
 - Carbon black CAS: 1333-86-4
 - OEL Type: ACGIH LTE: 3 mg/m3
 - OEL Type: NIOSH LTE: 3.5 mg/m3 STE: 1750 mg/m3
 - OEL Type: OSHA LTE: 3.5 mg/m3
 - 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: 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 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

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Black Liquid Slightly No data available at 20 °C 8.4 ~ 9 -12 °C No data available No data available No data available No data available > 120 °C / 248 ° F No data available No data available 1.048 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



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 - Route: Dermal - Species: Rabbit Mild irritant

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Mild irritant

d) respiratory or skin sensitisation:

Test: Skin Sensitisation - Route: LLNA 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

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.

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

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 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

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:

Restriction 40

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.

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: GefStoffVO:	European Inventory of Existing Commercial Chemical Substances. 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 Áviation 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.