

	stance/mixture and of the company/undertaking	
1.1. Product identifier		
Mixture identification:		
Trade name:	T6054	
Trade code:	C13T605400	
	ubstance or mixture and uses advised against	
Recommended use:		
Ink for inkje		
<ol> <li>1.3. Details of the supplier of the safe Company:</li> </ol>	ty data sheet	
EPSON EU		
	g, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam	
	e Netherlands	
Phone num		
Competent person responsible		
chemicals@		
Date:	13/10/2020	
Revision:	2.0	
1.4. Emergency telephone number		
Phone number:	+31-20-314-5000	
United Kingdom;	01952 607111 Monday to Friday 9am to 5:30pm.	
	Emergency Action: In the event of a medical enquiry involving	
	this product, please contact your doctor or local hospital	
	accident and emergency department.	
Ireland;	+353 (01) 809 2566 or +353 (01) 809 2166	
Malta;	2545 0000 or 21224071	
SECTION 2: Hazards identification		
2.1. Classification of the substance of	r minturn	
EC regulation criteria 1272/200		
(CLP).	fied as dangerous according to Regulation EC 1272/2008	
Adverse physicochemical, human health and environmental effects:		
No other hazards		
2.2. Label elements		
	dangerous according to Regulation EC 1272/2008 (CLP).	
Hazard pictograms:		
Name		

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

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### **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:

Qty	Name	Ident. Numb	ber	Classification
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).
12.5% ~	Glycerol	CAS:	56-81-5	The product is not classified as
15%		EC:	200-289-5	dangerous according to
				Regulation EC 1272/2008 (CLP).
3% ~ 5%	ethanediol; ethylene	Index	603-027-00-1	3.1/4/Oral Acute Tox. 4 H302
	glycol	number:		
		CAS:	107-21-1	
		EC:	203-473-3	
0.5% ~	Triethanolamine	CAS:	102-71-6	The product is not classified as
1%		EC:	203-049-8	dangerous according to
				Regulation EC 1272/2008 (CLP).
0.0015%	1,2-benzisothiazol-3(2	Index	613-088-00-6	3.1/4/Oral Acute Tox. 4 H302
~ 0.05%	H)-one; 1,2-benzisothiazolin-3-	number: CAS:	2634-33-5	1.2/2 Skin Irrit. 2 H315
	one	EC:	220-120-9	🤣 3.3/1 Eye Dam. 1 H318
				3.4.2/1 Skin Sens. 1 H317
				4.1/A1 Aquatic Acute 1 H400
				Specific Concentration Limits:
				0.005% <= C < 0.05%: EUH208
				C >= 0.05%: Skin Sens. 1 H317

### **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.

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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. See also section 8 for recommended protective equipment. Advice on general occupational hygiene: Do not eat or drink while working.
- 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 - TWA: 5 mg/m3 - Notes: Respirable dust

- OEL Type: OSHA - TWA: 15 mg/m3 - Notes: Total dust

ethanediol; ethylene glycol - CAS: 107-21-1

- OEL Type: EU TWA(8h): 52 mg/m3, 20 ppm STEL: 104 mg/m3, 40 ppm
- OEL Type: ACGIH TWA(8h): 25 ppm STEL: 50 ppm
- OEL Type: ACGIH STEL: 10 mg/m3
- Triethanolamine CAS: 102-71-6
  - OEL Type: ACGIH TWA(8h): 5 mg/m3

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DNEL Exposure Limit Values No data available PNEC Exposure Limit Values
No data available
8.2. Exposure controls
8.2.1. Appropriate engineering controls: None
8.2.2. Individual protection measures, such as personal protective equipment
Eye protection:
Use personal protective equipment as required.
Protection for skin:
Use personal protective equipment as required.
Protection for hands:
Use personal protective equipment as required.
Respiratory protection:
Use personal protective equipment as required.
Thermal Hazards:
None
8.2.3. Environmental exposure controls: None
Appropriate engineering controls:
None

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

9.1. Information on basic physical and chemical prope	rties
Appearance and colour:	Yellow Liquid
Odour:	Slightly
Odour threshold:	No data available
pH:	8.6 ~ 10 at 20 °C
Melting point / freezing point:	-16.6 °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:	Does not flash until 120 °C / 248 ° F
•	(Cleveland open cup method, JIS K2265-4)
Evaporation rate:	No data available
Vapour pressure:	No data available
Relative density:	1.060 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

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- 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 product:
    - 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 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
    - f) carcinogenicity:
      - Does not contain carcinogens (Ref. 1)
    - g) reproductive toxicity:
      - Does not contain reproductive toxicity and developmental toxic substances (Ref. 2)
  - Toxicological information of the main substances found in the product:
    - 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.
    - ethanediol; ethylene glycol CAS: 107-21-1
    - a) acute toxicity:
      - Test: LDLo Route: Oral Species: Human = 398 mg/kg Source:
      - Sudebno-Meditsinskaya Ekspertiza. Forensic Medical Examination. Vol. 26(2), Pg. 48, 1983.
    - Test: LDLo Route: Oral Species: Human = 786 mg/kg Source: European Journal of Toxicology and Environmental Hygiene. Vol. 9, Pg. 373, 1976. Triethanolamine - 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.

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. Toxicological information of the product:
    - No data available
  - Toxicological information of the main substances found in the product:
  - 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 Marpol and the IBC Code

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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) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 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 2012/18/EU (Seveso III) Regulation (EC) nr 648/2004 (detergents). Dir. 2004/42/EC (VOC directive) Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 None

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for the mixture.

### **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.

EUH208 Contains (name of sensitising substance). May produce an allergic reaction.

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	3.4.2/1	Skin Sensitisation, Category 1
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

SECTION 3: Composition/information on ingredients

SECTION 6: Accidental release measures

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 14: Transport information

SECTION 15: Regulatory information

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

SAXs DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

- Ref. 1 ·IARC Monographs on the Evaluation Carcinogenic Risks to Humans (IARC: International Agency for Research on Cancer)
  ·Journal of Occupational Health (JOH) (Japan Society of Occupational Health (JSOH))
  ·TLVs and BEIs (ACGIH: American Conference of Governmental Industrial Hygienists)
  ·IRIS Carcinogenic Assessment (IRIS: Integrated Risk Information System of US EPA)
  ·National Toxicology Program (NTP) Report on Carcinogens (USA)
  ·Annex VI of REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
  ·MAK und BAT Werte Liste (DFG: German Research Foundation)
  ·TRGS 905, Verzeichnis krebserzeugender, keimzell mutagener oder reproduktionstoxischer Stoffe (AGS: Committee on Hazardous Substances, Germany)
  ·Annex VI of REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT
- Ref. 2 Annex VI of REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
   TRGS 905, Verzeichnis krebserzeugender, keimzell mutagener oder reproduktionstoxischer Stoffe (AGS: Committee on Hazardous Substances, Germany)

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.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)

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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.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods
	by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.