Safety Data Sheet Cover Page

Why are there two Safety Data Sheets?

Epson is providing this document to inform you that there are two different compositions of the same ink available on the market, resulting in two Safety Data Sheets for the same ink.

Epson has changed the composition of this ink to substitute a component that has been classified as hazardous while the ink with the old composition is still on the market. For this reason, there are two Safety Data Sheets for the same ink.

To determine which Safety Data Sheet applies to your product, and to ensure that you have the correct information about hazards and risk management measures, we ask that you check the best-before date indicated on the packaging of the ink cartridge. See the following for details on how to check the date.

How to check which Safety Data Sheet you need to refer to:

	Best-before date (YYYYMM)	Revision	Page
Replacement ink cartridge		6.0	Page 2 - 12
	In and after: 2028.02	7.0	Page 13 - 22

Where to find the best-before date:

Ink Cartridge Packaging		
Pattern.1	Pattern.2	Pattern.3
OUISILIERO	Best-before date	Best-before date



	stance/mixture and of the company/undertaking
1.1. Product identifier	
Mixture identification:	
Trade name:	INK SUPPLY UNIT,M T9443 (Best-before date: Before 2028.02)
Trade code:	C13T944340
	ubstance or mixture and uses advised against
Recommended use:	
Ink for inkje	
1.3. Details of the supplier of the safe	ety data sheet
Company:	
EPSON EL	JROPE B.V.
Azie buildir	ig, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam
Zuidoost Th	ne Netherlands
Phone num	ber: +31-20-314-5000
Competent person responsible	for the safety data sheet:
chemicals@	∮epson.eu
Date:	20/10/2022
Revision:	6.0
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: Horordo identification	

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
 - EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

- No other hazards
- 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

EUH208 Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction. EUH208 Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol. May produce an allergic reaction.

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

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1% Other Hazards: No other hazards

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	er	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).
10% ~ 12.5%	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%	2-Pyrrolidone	CAS: EC: REACH No.:	616-45-5 210-483-1 01-21194754 71-37	 3.3/2 Eye Irrit. 2 H319 3.7/1B Repr. 1B H360 Specific Concentration Limits: C >= 3%: Repr. 1B H360
1% ~ 3%	2-[2-(2-butoxyethoxy)et hoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	number: CAS: EC:	603-183-00-0 143-22-6 205-592-6 01-21194751 07-38	 3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C >= 30%: Eye Dam. 1 H318 20% <= C < 30%: Eye Irrit. 2 H319
1% ~ 3%	Triethanolamine	CAS: EC: REACH No.:	102-71-6 203-049-8 01-21194864 82-31	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
0.25% ~ 0.5%	2,4,7,9-tetramethyldec- 5-yne-4,7-diol	CAS: EC: REACH No.:	126-86-3 204-809-1 01-21199543 90-39	 3.3/1 Eye Dam. 1 H318 3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412
0.0015% ~ 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 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
0.0015% ~ 0.05%	2-methylisothiazol-3(2 H)-one	Index number: CAS: EC:	613-326-00-9 2682-20-4 220-239-6	 3.1/2/Inhal Acute Tox. 2 H330 3.1/3/Dermal Acute Tox. 3 H311 3.1/3/Oral Acute Tox. 3 H301 3.2/1B Skin Corr. 1B H314



3.3/1 Eye Dam. 1 H318
3.4.2/1A Skin Sens. 1A H317
4.1/A1 Aquatic Acute 1 H400
M=10.
4.1/C1 Aquatic Chronic 1
H410 M=1.
EUH071
Specific Concentration Limits:
C >= 0.0015%: Skin Sens. 1A
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.
 - 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.

Best-before date: Before 2028.02



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 Triethanolamine - CAS: 102-71-6 - OEL Type: ACGIH - TWA(8h): 5 mg/m3 **DNEL Exposure Limit Values** 2-Pyrrolidone - CAS: 616-45-5 Worker Industry: 13.23 mg/m3 - Worker Professional: 1.985 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Worker Industry: 1.876 mg/kg/day - Worker Professional: 0.67 mg/kg/day -Exposure: Human Dermal - Frequency: Long Term, systemic effects Worker Professional: 0.67 mg/kg/day - Exposure: Human Oral - Frequency: Long Term, systemic effects Triethanolamine - CAS: 102-71-6 Worker Industry: 6.3 mg/kg/day - Consumer: 3.1 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects Worker Industry: 5 mg/m3 - Consumer: 1.25 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 13 mg/kg/day - Exposure: Human Oral - Frequency: Short Term, systemic effects **PNEC Exposure Limit Values** 2-Pyrrolidone - CAS: 616-45-5 Target: Fresh Water - Value: 0.5 mg/l Target: Freshwater sediments - Value: 2.17 mg/kg Target: Marine water - Value: 0.05 mg/l Target: Marine water sediments - Value: 0.217 mg/kg

Target: Microorganisms in sewage treatments - Value: 10 mg/l



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 Triethanolamine - CAS: 102-71-6 Target: Fresh Water - Value: 0.32 mg/l Target: Marine water - Value: 0.032 mg/l Target: Freshwater sediments - Value: 1.7 mg/kg Target: Marine water sediments - Value: 0.17 mg/kg Target: Soil (agricultural) - Value: 0.151 mg/kg 2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3 Target: Fresh Water - Value: 0.04 mg/l Target: Marine water - Value: 0.004 mg/l Target: Freshwater sediments - Value: 0.32 mg/kg Target: Marine water sediments - Value: 0.032 mg/kg 8.2. Exposure controls 8.2.1. Appropriate engineering controls: None 8.2.2. Individual protection measures, such as personal protective equipment Eve 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 properties Physical state: Liquid Colour: Magenta Odour: Slightly Melting point / freezing point: No data available Boiling point or initial boiling point and boiling range: No data available Flammability: Non-flammable Lower and upper explosion limit: No data available Flash point: > 100 °C / 212 ° F Auto-ignition temperature: No data available Decomposition temperature: No data available 8.8 ~ 9.8 at 20 °C pH: Kinematic viscosity: No data available Solubility in water: Complete Vapour pressure: No data available

Best-before date: Before 2028.02



	ive vapour density: le characteristics:	No data availa Not Relevant	ble	
9.2. Other ir Visco		< 5 mPa⋅s	at 20 °C	
10.1. Reacti Stable 10.2. Chemi Stable 10.3. Possit None 10.4. Condit Stable 10.5. Incom None 10.6. Hazar None	e under normal conditions ical stability e under normal conditions bility of hazardous reactions tions to avoid e under normal conditions. patible materials in particular. dous decomposition products			
11.1. Inform	ation on hazard classes as defined in Re ological information of the product: d) respiratory or skin sensitisation: Test: Skin Sensitisation - Based of not met e) germ cell mutagenicity: Test: Mutagenesis - Species: Sal	on available data	, the classification	
Toxic	Negative f) carcinogenicity: Does not contain carcinogens (Re ological information of the main substance Glycerol - CAS: 56-81-5		product:	
	 a) acute toxicity: Test: LD50 - Route: Oral - Specie of Industrial Hygiene and Toxicole Test: LDLo - Route: Oral - Specie of Drugs and Chemicals," Deichn 1969Vol, Pg. 288, 1969. 2-Pyrrolidone - CAS: 616-45-5 a) acute toxicity: 	ogy. Vol. 23, Pg. es: Human = 142	259, 1941 8 mg/kg - Source:	"Toxicology
	 a) acute toxicity: Test: LD50 - Route: Oral - Specie Test: LD50 - Route: Dermal - Specie b) skin corrosion/irritation: Test: Skin Irritant - Species: Rabi 	ecies: Rabbit > 2		
	 c) serious eye damage/irritation: Test: Eye Irritant - Species: Rabb the classification criteria are not r d) respiratory or skin sensitisation: Test: Skin Sensitisation - Route: e) germ cell mutagenicity: Test: Mutagenesis 	net LLNA - Species:	Mouse Negative	
C13T944340 en	Test: Mutagenesis - Species: Sal Negative Best-before date: Befo		unum and Escheric	Version 8.2

Best-before date: Before 2028.02



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. 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. 2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3 a) acute toxicity: 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 Highly irritating d) respiratory or skin sensitisation: Test: Skin Sensitisation - Route: LLNA - Species: Mouse Sensitiser e) germ cell mutagenicity: Test: Mutagenesis - Species: Salmonella Typhimurium Negative If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.: 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.
- j) aspiration hazard.

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

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:
 - 2-Pyrrolidone CAS: 616-45-5
 - a) Aquatic acute toxicity:
 - Endpoint: LC50 Species: Fish > 4600 mg/l Duration h: 96 Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 24

C13T944340_en Page n. 8 of 22 Best-before date: Before 2028.02

Version 8.2 Revision 6.0



Endpoint: EC50 - Species: Algae > 500 mg/l - Duration h: 72 2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish = 36 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia = 88 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae = 15 mg/l - Duration h: 72 c) Bacteria toxicity: Endpoint: EC50 - Species: activated sludge = 630 mg/l - Duration h: 0.5 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. Endocrine disrupting properties No endocrine disruptor substances present in concentration >= 0.1%12.7. 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 or ID 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. Maritime transport in bulk according to IMO instruments 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) n. 2020/878 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)

C13T944340_en Page n. 9 of 22 Best-before date: Before 2028.02

Version 8.2 Revision 6.0



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) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Regulation (EC) n. 2021/849 (ATP 17 CLP) Regulation (EC) n. 2022/692 (ATP 18 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: **Restriction 75** 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: H319 Causes serious eye irritation. H360 May damage fertility or the unborn child. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. H302 Harmful if swallowed. H315 Causes skin irritation. H400 Very toxic to aquatic life. EUH208 Contains (name of sensitising substance). May produce an allergic reaction. H330 Fatal if inhaled. H311 Toxic in contact with skin. H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract.

Hazard class and hazard category	Code	Description
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3



3.1/3/Oral	Acute toxicity (oral), Category 3
3.1/4/Oral	Acute toxicity (oral), Category 4
3.2/1B	Skin corrosion, Category 1B
3.2/2	Skin irritation, Category 2
3.3/1	Serious eye damage, Category 1
3.3/2	Eye irritation, Category 2
3.4.2/1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sensitisation, Category 1A
3.4.2/1B	Skin Sensitisation, Category 1B
3.7/1B	Reproductive toxicity, Category 1B
4.1/A1	Acute aquatic hazard, category 1
4.1/C1	Chronic (long term) aquatic hazard, category 1
4.1/C3	Chronic (long term) aquatic hazard, category 3
	3.1/4/Oral 3.2/1B 3.2/2 3.3/1 3.3/2 3.4.2/1 3.4.2/1A 3.4.2/1B 3.7/1B 4.1/A1 4.1/C1

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

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

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)

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)
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.

C13T944340_en Page n. 11 of 22 Best-before date: Before 2028.02



IATA: IATA-DGR:	International Air Transport Association. 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.



	tance/mixture and of the company/undertaking
1.1. Product identifier	
Mixture identification:	
Trade name:	INK SUPPLY UNIT,M T9443
Trada andar	(Best-before date: In and after 2028.02)
Trade code:	C13T944340
	bstance or mixture and uses advised against
Recommended use:	
Ink for inkje	
1.3. Details of the supplier of the safe	ty data sheet
Company:	
EPSON EU	ROPE B.V.
Azie buildin	g, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam
Zuidoost Th	e Netherlands
Phone num	ber: +31-20-314-5000
Competent person responsible	for the safety data sheet:
chemicals@	epson.eu
Date:	24/05/2023
Revision:	7.0
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	

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
 - EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

- No other hazards
- 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

EUH208 Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction. EUH208 Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol. May produce an allergic reaction.

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

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1% Other Hazards: No other hazards

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	er	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).
10% ~ 12.5%	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%	2-[2-(2-butoxyethoxy)et hoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	number: CAS: EC:	603-183-00-0 143-22-6 205-592-6 01-21194751 07-38	 3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C >= 30%: Eye Dam. 1 H318 20% <= C < 30%: Eye Irrit. 2 H319
1% ~ 3%	Triethanolamine	CAS: EC: REACH No.:	102-71-6 203-049-8 01-21194864 82-31	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
0.25% ~ 0.5%	2,4,7,9-tetramethyldec- 5-yne-4,7-diol	CAS: EC: REACH No.:	126-86-3 204-809-1 01-21199543 90-39	 3.3/1 Eye Dam. 1 H318 3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412
0.0015% ~ 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 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
0.0015% ~ 0.05%	2-methylisothiazol-3(2 H)-one	Index number: CAS: EC:	613-326-00-9 2682-20-4 220-239-6	 3.1/2/Inhal Acute Tox. 2 H330 3.1/3/Dermal Acute Tox. 3 H311 3.1/3/Oral Acute Tox. 3 H301 3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318 3.4.2/1A Skin Sens. 1A H317 4.1/A1 Aquatic Acute 1 H400 M=10.



	4.1/C1 Aquatic Chronic 1 H410 M=1. EUH071 Specific Concentration Limits: C >= 0.0015%: Skin Sens. 1A H317
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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

C13T944340_en Page n. 15 of 22 Best-before date: In and after 2028.02



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
Triethanolamine - CAS: 102-71-6
- OEL Type: ACGIH - TWA(8h): 5 mg/m3
DNEL Exposure Limit Values
Triethanolamine - CAS: 102-71-6
Worker Industry: 6.3 mg/kg/day - Consumer: 3.1 mg/kg/day - Exposure: Human
Dermal - Frequency: Long Term, systemic effects
Worker Industry: 5 mg/m3 - Consumer: 1.25 mg/m3 - Exposure: Human
Inhalation - Frequency: Long Term, systemic effects
Consumer: 13 mg/kg/day - Exposure: Human Oral - Frequency: Short Term,
systemic effects
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: Marine water sediments - Value: 0.15 mg/kg Target: Microorganisms in sewage treatments - Value: 200 mg/l
Triethanolamine - CAS: 102-71-6
Target: Fresh Water - Value: 0.32 mg/l
Target: Marine water - Value: 0.032 mg/l
Target: Freshwater sediments - Value: 1.7 mg/kg
Target: Marine water sediments - Value: 0.17 mg/kg
Target: Soil (agricultural) - Value: 0.151 mg/kg
2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3
Target: Fresh Water - Value: 0.04 mg/l
Target: Marine water - Value: 0.004 mg/l
Target: Freshwater sediments - Value: 0.32 mg/kg
Target: Marine water sediments - Value: 0.032 mg/kg

8.2. Exposure controls

C13T944340_en Page n. 16 of 22 Best-before date: In and after 2028.02



- 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

TION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical pr	operties		
Physical state:	Physical state: Liquid		
Colour:	Magenta		
Odour:	Slightly		
Melting point / freezing point:	No data avai	No data available	
Boiling point or initial boiling point and boilin	g range:		
No da		lable	
Flammability:	Non-flammable		
Lower and upper explosion limit:	No data available Does not flash. No data available		
Flash point:			
Auto-ignition temperature:			
Decomposition temperature:	No data available		
pH:	8.8 ~ 9.8	at 20 °C	
Kinematic viscosity:	No data avai	No data available	
Solubility in water:	Complete No data available		
Vapour pressure:			
Relative vapour density:	No data avai	lable	
Particle characteristics:	Not Relevan	t	
9.2. Other information			

Viscosity:

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.

C13T944340_en Page n. 17 of 22 Best-before date: In and after 2028.02

at 20 °C

< 5 mPa⋅s



SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

d) respiratory or skin sensitisation:

Test: Skin Sensitisation - Based on available data, the classification criteria are not met

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.

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,

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.

2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3

a) acute toxicity:

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 Highly irritating

- d) respiratory or skin sensitisation:
 - Test: Skin Sensitisation Route: LLNA Species: Mouse Sensitiser
- e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium Negative

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;

C13T944340_en Page n. 18 of 22 Best-before date: In and after 2028.02



- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.
- 11.2. Information on other hazardsEndocrine disrupting properties:No endocrine disruptor substances present in concentration >= 0.1%

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:

- 2,4,7,9-tetramethyldec-5-yne-4,7-diol CAS: 126-86-3
- a) Aquatic acute toxicity:
 - Endpoint: LC50 Species: Fish = 36 mg/l Duration h: 96
 - Endpoint: EC50 Species: Daphnia = 88 mg/l Duration h: 48
 - Endpoint: EC50 Species: Algae = 15 mg/l Duration h: 72
- c) Bacteria toxicity:
 - Endpoint: EC50 Species: activated sludge = 630 mg/l Duration h: 0.5
- 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. Endocrine disrupting properties
 - No endocrine disruptor substances present in concentration >= 0.1%
- 12.7. 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 or ID 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

C13T944340_en

Best-before date: In and after 2028.02

Version 8.2 Revision 7.0



14.7. Maritime transport in bulk according to IMO instruments 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) n. 2020/878 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) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Regulation (EU) n. 2021/849 (ATP 17 CLP) Regulation (EU) n. 2022/692 (ATP 18 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: **Restriction 75** 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: H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
H302 Harmful if swallowed.

Best-before date: In and after 2028.02



H315 Causes skin irritation.
H400 Very toxic to aquatic life.
EUH208 Contains (name of sensitising substance). May produce an allergic reaction.
H330 Fatal if inhaled.
H311 Toxic in contact with skin.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Hazard class and hazard category	Code	Description
	0.4/0/labal	A suite terrisity (ish slation). Ostanom 0
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 11: Toxicological information

SECTION 12: Ecological 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

SAX's 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



Ref. 2

Safety Data Sheet

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 AND OF THE COUNCIL of 16 December 2008 on classification, labelling and

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.

Dangerous Goods by Road.ATE:Acute Toxicity EstimateATEmix:Acute toxicity Estimate (Mixtures)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:International Air Transport Association.IATA:International Civil Aviation Organization.ICAO:International Civil Aviation Organization.ICAO:International Maritime Code for Dangerous Goods.INCI:International Maritime Code for Dangerous Goods.INCI:International Momenclature 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.	ADR:
ATEmix:Acute toxicity Estimate (Mixtures)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:International Air Transport Association.IATA-DGR:Dangerous Goods Regulation by the "International Air Transport Association" (IATA).ICAO:International Civil Aviation Organization.ICAO:International Maritime Code for Dangerous Goods.INCI: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.	
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STEL: Short Term Exposure limit.	STEL:
STOT: Specific Target Organ Toxicity.	STOT:
TLV: Threshold Limiting Value.	TLV:
TWA: Time-weighted average	TWA:
WGK: German Water Hazard Class.	WGK: