		<b>SAFETY DATA SHEET</b>	
according to Commission Regulation (EU) 2020/878 as amended			
<b>Inks 2612</b>			
Creation date	11th December 2019	Version	2.0
Revision date	17th May 2023		

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

- 1.1. Product identifier**  
 Substance / mixture: Inks 2612 mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
 Ink for markers: type 2672.  
**Main intended use**  
 PC-INK-1 Writing and drawing inks  
**Mixture uses advised against**  
 The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
 Name or trade name: CENTROPEN, a. s.  
 Address: tř. 9. května 161, Dačice, 380 12  
 Czech Republic  
 Identification number (CRN): 00142492  
 Phone: +420 384 406 200  
 E-mail: centropen@da.centropen.cz  
**Competent person responsible for the safety data sheet**  
 Name: CENTROPEN, a.s.  
 E-mail: neshybova@da.centropen.cz
- 1.4. Emergency telephone number**  
 European emergency number: 112

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
 The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.  
 Full text of all classifications and hazard statements is given in the section 16.
- 2.2. Label elements**  
 none
- 2.3. Other hazards**  
 The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

**SECTION 3: Composition/information on ingredients**

- 3.2. Mixtures**  
**Chemical characterization**  
 Water-based mixture. Water content 70-75 %.  
**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-183-00-0 CAS: 143-22-6 EC: 205-592-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	<2	Eye Dam. 1, H318 Specific concentration limit: Eye Dam. 1, H318: C ≥ 30 % Eye Irrit. 2, H319: 20 % ≤ C < 30 %	



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Inks 2612

Creation date 11th December 2019

Revision date 17th May 2023

Version 2.0

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 613-344-00-7 CAS: 3811-73-2 EC: 223-296-5	Pyridine-2-thiol 1-oxide, sodium salt	<0,03	Acute Tox. 4, H302 Acute Tox. 3, H311+H331 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT RE 1, H372 (nervous system) Aquatic Acute 1, H400 (M=100) Aquatic Chronic 2, H411 EUH070 Specific concentration limit: ATE Inhalation (dust/mist) = 0,5 mg/l ATE Dermal = 790 mg/kg bw ATE Oral = 500 mg/kg bw	

Full text of all classifications and hazard statements is given in the section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

##### If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

##### If on skin

Remove contaminated clothes.

##### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

##### If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

#### 4.2. Most important symptoms and effects, both acute and delayed

##### If inhaled

Not expected.

##### If on skin

Not expected.

##### If in eyes

Not expected.

##### If swallowed

Not expected.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Accommodate extinguishing components to the location of fire.

##### Unsuitable extinguishing media

not available

#### 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

**Inks 2612**

Creation date	11th December 2019		
Revision date	17th May 2023	Version	2.0

**5.3. Advice for firefighters**

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Follow the instructions in the Sections 7 and 8.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water.

**6.3. Methods and material for containment and cleaning up**

Ventilate the room. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

**7.3. Specific end use(s)**

not available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

The mixture contains no substances for which occupational exposure limits are set.

**8.2. Exposure controls**

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

**Eye/face protection**

It is not needed.

**Skin protection**

When handling in long-term or repeatedly, use protective gloves.

**Respiratory protection**

It is not needed.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	gas
Colour	according to specifications
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available

## Inks 2612

Creation date 11th December 2019  
Revision date 17th May 2023 Version 2.0

Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	7,0-9,0 (undiluted)
Kinematic viscosity	data not available
Viscosity	1.90 - 2,50 mPas
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available

### 9.2. Other information

Appearance liquid

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

not available

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

Pyridine-2-thiol 1-oxide, sodium salt

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation (dust/mist)	ATE	0.5 mg/l			
Dermal	ATE	790 mg/kg bw			
Oral	ATE	500 mg/kg bw			

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

#### Carcinogenicity

Based on available data the classification criteria are not met.

**Inks 2612**

Creation date	11th December 2019		
Revision date	17th May 2023	Version	2.0

**Reproductive toxicity**

Based on available data the classification criteria are not met.

**Toxicity for specific target organ - single exposure**

Based on available data the classification criteria are not met.

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Based on available data the classification criteria are not met.

**11.2. Information on other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**SECTION 12: Ecological information****12.1. Toxicity****Acute toxicity****12.2. Persistence and degradability**

not available

**12.3. Bioaccumulative potential**

Not available.

**12.4. Mobility in soil**

Not available.

**12.5. Results of PBT and vPvB assessment**

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Endocrine disrupting properties**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**12.7. Other adverse effects**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

08 01 12 waste paint and varnish other than those mentioned in 08 01 11

**SECTION 14: Transport information****14.1. UN number or ID number**

not subject to transport regulations

**14.2. UN proper shipping name**

not relevant



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Inks 2612

Creation date	11th December 2019		
Revision date	17th May 2023	Version	2.0

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H372	Causes damage to the nervous system through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H311+H331	Toxic in contact with skin or if inhaled.

### A list of additional standard phrases used in the safety data sheet

EUH070	Toxic by eye contact.
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### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Inks 2612

Creation date	11th December 2019		
Revision date	17th May 2023	Version	2.0

EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 2.0 replaces the SDS version from 11 December 2019. Changes were made in sections 2 and 16.

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

**Section 1: Product and company identification**

## Product identification:

Name: Felt tip pen Ink

Color: All colors

Number:

CAS#: mixture

Relevant identified uses of the substance or mixture and uses advised against

Currently no such applications are identified.

Details of the supplier of the safety data sheet

- Manufacturer/Supplier:  
Vivapen d.o.o.  
Gaji 41, 3000 Celje, Slovenia
- Phone: +386 3 425 87 20
- Fax: +386 3 425 87 45
- E-mail: info@vivapen.com

**Section 2: Hazard identification of the preparation**

Classification of the substance or mixture

Classification according to REGULATION (EC) No 1272/2008: Not applicable.

The product is not classified according to the CLP regulation.

· Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Label elements: Not applicable.

· Labelling according to EU guidelines:



Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.

- Additional data:

SDS available on demand.

**Section 3: Composition/information on ingredients- Mixtures**

Mixture of the following substances, containing non-hazardous substances and colouring agents.

Ingredients	Conc.	CAS No	Hazard symbols	Hazard statements
Water				
2-Phenoxyethanol	< 1 %	122-99-6		H319 – Causes serious eye irritation. H302 – Harmful if swallowed.
Propylenglykol	< 20%	57-55-6		No Significant Hazard
Rosso Ponceau 4R 80	< 3%	2611-82-7		No significant Hazard
Tatrazine 85	< 3%	1934-21-0		No significant Hazard
Brilliant Blue FCF	< 1 %	3844-45-9		No significant Hazard
Azorubin 85 E 122	< 1 %	3567-69-9		No significant Hazard
Briliant Black BN LMF	< 1 %	2519-30-4		No significant Hazard
Erytrosine E127	< 2 %	16423-68-0		No significant Hazard
Netzmittel (1:2) Koralat N 100 Emulan EL	< 0,1 %	69011-36-5		H318 – Causes serious eye damage. H302 – Harmful if swallowed.
Simacid Red	< 2 %	3520-42-1		No significant Hazard



**Section 4: First aid measures**

General: In all cases of doubt, or when symptoms persist, seek medical attention.  
Inhalation: NA  
Skin contact: Wash skin thoroughly only with soap and water or recognized skin cleanser.  
Eye contact: Rinse with plenty clean, fresh water for at least 10 minutes, holding the eyelids apart (remove eye lenses if possible) and seek medical advice.  
Ingestion: If accidentally swallowed (a lot) seek medical advice. Keep at rest. Do NOT induce vomiting.

**Section 5: Firefighting measures****Extinguishing media**

- Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

**Section 6: Accidental release measures**

- Personal precautions, protective equipment and emergency procedures: Refer to protective measures listed in sections 7 and 8.
  - Environmental precautions: Remains clean with water and detergent, avoid use of solvents. Do not allow to enter sewers/ surface or ground water. If do, inform authorities in accordance to local regulations.
  - Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Place in container for disposal according to local regulations (see section 13).
  - Reference to other sections
- No dangerous substances are released.

**Section 7: Handling and storage****Handling:**

- Precautions for safe handling: No special measures required. Ensure good ventilation/exhaustion at the workplace.
- Information about fire - and explosion protection: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage: store between 5 and 30 °C in a dry place, away from other chemicals.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Specific end use(s) No further relevant information available.

**Section 8: Exposure controls / personal protection**

Additional information about design of technical facilities: No further data; see item 7.

**Control parameters**

- Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Exposure controls**

- Personal protective equipment:



General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: Not required.
- Protection of hands: The glove material has to be impermeable and resistant to the product.
- Eye protection: Goggles recommended during refilling.

### Section 9: Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

- Physical state: Liquid
- Form: Fluid
- Color: According to product specification
- Odor: Product specific.
- Odor threshold: Not determined.
  - pH (at 20 °C): 7,5 – 8,5
  - Melting/Freezing point: 0 °C
  - Boiling point: 100 °C
  - Density: 1 g/cm<sup>3</sup>
  - Solubility (water): Fully miscible
  - Auto-ignition temperature: Not self-igniting
  - Danger of explosion: Product does not present an explosion hazard.
  - Organic solvents: 20 %
  - Water: 78 %
  - Other solid ingredients: 2 %

### Section 10: Stability and reactivity

- Reactivity
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.

### Section 11: Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

- On the skin: No irritant effect.
- On the eyes: No irritating effect.
- Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### Section 12: Ecological information

Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- Bio accumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.



- Additional ecological information:
- General notes:
  - Water hazard class 1 (Self-assessment): slightly hazardous for water
  - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Section 13: Disposal considerations**

## Waste treatment methods

- Recommendation Smaller quantities can be disposed of with household waste or according to national regulations.

## Uncleaned packaging:

- Recommendation: Disposal must be made according to official local and national regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

**Section 14: Transport information**

UN-Number: None

UN proper shipping name: None

Transport hazard class(es): None

Packing group: None

· Marine pollutant: No

· Special precautions for user: Not applicable.

**Section 15: Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Labeling is not required according to EEC regulations.

**Section 16: Other information**

This information is based on our present knowledge and on current EEC and national regulations. The users working conditions are beyond our knowledge and control. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The product is to be used for writing. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation.



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Ink 2621 - colour 12 black

Creation date	04th June 2009	Version	4.0
Revision date	05th January 2023		

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

- 1.1. Product identifier**  
Ink 2621 - colour 12 black  
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Ink for markers: type 2621, 2611, 2651, 2551, 2701, Chameleon Detail Pen 1631.  
**Main intended use**  
PC-INK-1 Writing and drawing inks  
**Mixture uses advised against**  
not available
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name CENTROPEN, a. s.  
Address tř. 9. května 161, Dačice, 380 12  
Czech Republic  
Identification number (CRN) 00142492  
Phone +420 384 406 200  
E-mail centropen@da.centropen.cz  
**Competent person responsible for the safety data sheet**  
Name CENTROPEN, a.s.  
E-mail centropen@da.centropen.cz
- 1.4. Emergency telephone number**  
112 – ask for Poisons Information

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.  
Full text of all classifications and hazard statements is given in the section 16.
- 2.2. Label elements**  
none
- 2.3. Other hazards**  
Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

### SECTION 3: Composition/information on ingredients

- 3.2. Mixtures**  
**Chemical characterization**  
Water-based mixture. Water content 70 - 80 %.  
**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**  
none

### SECTION 4: First aid measures

- 4.1. Description of first aid measures**  
Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.  
**If inhaled**  
Terminate the exposure immediately; move the affected person to fresh air.



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Ink 2621 - colour 12 black

Creation date	04th June 2009		
Revision date	05th January 2023	Version	4.0

### **If on skin**

Remove contaminated clothes.

### **If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

### **If swallowed**

Rinse out the mouth with clean water. In the event of issues, find medical help.

## **4.2. Most important symptoms and effects, both acute and delayed**

### **If inhaled**

Not expected.

### **If on skin**

Not expected.

### **If in eyes**

Not expected.

### **If swallowed**

Not expected.

## **4.3. Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist

#### **Unsuitable extinguishing media**

water - full jet

### **5.2. Special hazards arising from the substance or mixture**

Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### **5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Follow the instructions in the Sections 7 and 8.

### **6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water.

### **6.3. Methods and material for containment and cleaning up**

After removal of the product, wash the contaminated site with plenty of water.

### **6.4. Reference to other sections**

See the Section 7, 8 and 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

### **7.3. Specific end use(s)**

not available



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Ink 2621 - colour 12 black

Creation date	04th June 2009	Version	4.0
Revision date	05th January 2023		

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### 8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

##### Eye/face protection

It is not needed.

##### Skin protection

When handling in long-term or repeatedly, use protective gloves.

##### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

##### Thermal hazard

Not available.

##### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	black
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	7,5-8,5 (undiluted)
Kinematic viscosity	data not available
Viscosity	1.90 - 2,00 mPas
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

#### 9.2. Other information

not available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

not available

#### 10.2. Chemical stability

The product is stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Unknown.



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Ink 2621 - colour 12 black

Creation date 04th June 2009  
Revision date 05th January 2023 Version 4.0

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

Ink 2621 - colour 12 black

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	ATE	106100 mg/kg				Calculation of value
Dermal	ATE	1111000 mg/kg				Calculation of value
Inhalation (vapor)	ATE	40740 mg/l				Calculation of value

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### Reproductive toxicity

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

### 11.2. Information on other hazards

not available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

### 12.2. Persistence and degradability

not available

### 12.3. Bioaccumulative potential



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Ink 2621 - colour 12 black

Creation date	04th June 2009	Version	4.0
Revision date	05th January 2023		

Not available.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

Not available.

### 12.7. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

08 01 12 waste paint and varnish other than those mentioned in 08 01 11

## SECTION 14: Transport information

### 14.1. UN number or ID number

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th 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, as amended.





# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Ink 2621 - colour 12 black

Creation date	04th June 2009		
Revision date	05th January 2023	Version	4.0

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from 14.12.2020. Changes were made in sections 2 and 16.



## SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

### **Ink 2621 - colour 12 black**

Creation date	04th June 2009		
Revision date	05th January 2023	Version	4.0

#### **More information**

Classification procedure - calculation method.

#### **Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Inks 2701

Creation date	04th June 2013		
Revision date	13th June 2023	Version	8.0

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

#### 1.1. Product identifier

Inks 2701

Substance / mixture

mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Mixture's intended use

Inks in the markers: type 2521, 2524, 2551, 2701, 3551, 3611, 3640, 3651, 2851 Crayola, 2601, 4601, 8683 Aquarelle, 222, 223 TRIO 2in1.

##### Main intended use

PC-INK-1 Writing and drawing inks

##### Mixture uses advised against

not available

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Name or trade name

CENTROPEN, a. s.

Address

tř. 9. května 161, Dačice, 380 12

Czech Republic

Identification number (CRN)

00142492

Phone

+420 384 406 200

E-mail

centropen@da.centropen.cz

##### Competent person responsible for the safety data sheet

Name

CENTROPEN, a.s.

E-mail

centropen@da.centropen.cz

#### 1.4. Emergency telephone number

European emergency number: 112

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Full text of all classifications and hazard statements is given in the section 16.

#### 2.2. Label elements

none

#### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Water-based mixture. Water content >80 %.

##### Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

none

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

**Inks 2701**

Creation date	04th June 2013		
Revision date	13th June 2023	Version	8.0

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air.

**If on skin**

Remove contaminated clothes.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

**If swallowed**

Rinse out the mouth with clean water. In the event of issues, find medical help.

**4.2. Most important symptoms and effects, both acute and delayed****If inhaled**

Not expected.

**If on skin**

Not expected.

**If in eyes**

Not expected.

**If swallowed**

Not expected.

**4.3. Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist

**Unsuitable extinguishing media**

water - full jet

**5.2. Special hazards arising from the substance or mixture**

Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Prevent contact with skin and eyes. Use personal protective equipment for work. Entry authorized persons only.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

**6.3. Methods and material for containment and cleaning up**

Spilled product should be covered with suitable (nonflammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per Section 13. Collected material should be disposed of in accordance with locally valid regulations. Upon an escape of large quantities of the product, inform the Fire Department and the Environmental Department of the Municipal Authority with extended scope of competencies. After removal of the product, wash the contaminated site with plenty of water or another suitable cleaning material. Do not use solvents.

**6.4. Reference to other sections**

7, 8 and 13.

**Inks 2701**

Creation date	04th June 2013		
Revision date	13th June 2023	Version	8.0

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in areas designated for this purpose.

**7.3. Specific end use(s)**

Observe the information supplied by the manufacturer for the intended use.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

The mixture contains substances for which the following concentration limits in the workplace are determined.

**8.2. Exposure controls**

Follow usual measures for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

**Eye/face protection**

Safety glasses with side protection (EN 166) if there is a risk of splashing.

**Skin protection**

Hand protection: Protective gloves (EN 374). Short-term exposure: disposable gloves made from vinyl. Long-term exposure: chemical resistant gloves made from nitrile. Observe recommendations of the particular manufacturer of the gloves in the choice of their appropriate thickness, material and permeability. Other protection: Protective clothing. Contaminated skin should be washed thoroughly.

**Respiratory protection**

In normal use is not necessary.

**Thermal hazard**

not available

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	liquid
Colour	according to the manufacturer's specifications
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	100 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	6.2-8.3 (undiluted)
Kinematic viscosity	data not available
Viscosity	1.20-2.90 mPas
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Inks 2701

Creation date	04th June 2013		
Revision date	13th June 2023	Version	8.0

**9.2. Other information**  
not available

### SECTION 10: Stability and reactivity

**10.1. Reactivity**

not available

**10.2. Chemical stability**

Under normal use there is no dangerous reaction with other substances.

**10.3. Possibility of hazardous reactions**

Under normal conditions, the product is stable.

**10.4. Conditions to avoid**

The product is stable and no degradation occurs under normal use.

**10.5. Incompatible materials**

Protect against strong acids, bases and oxidizing agents.

**10.6. Hazardous decomposition products**

Not developed under normal uses.

### SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

**Inks 2701**

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	ATE	109300 mg/kg				Calculation of value
Dermal	ATE	1111000 mg/kg				Calculation of value
Inhalation (vapor)	ATE	40740 mg/l				Calculation of value

**Skin corrosion/irritation**

Based on available data the classification criteria are not met.

**Serious eye damage/irritation**

Based on available data the classification criteria are not met.

**Respiratory or skin sensitisation**

Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**Reproductive toxicity**

Based on available data the classification criteria are not met.

**Inks 2701**

Creation date	04th June 2013		
Revision date	13th June 2023	Version	8.0

**Toxicity for specific target organ - single exposure**

Based on available data the classification criteria are not met.

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Based on available data the classification criteria are not met.

**11.2. Information on other hazards**

not available

**SECTION 12: Ecological information****12.1. Toxicity**

not available

**12.2. Persistence and degradability**

not available

**12.3. Bioaccumulative potential**

not available

**12.4. Mobility in soil**

not available

**12.5. Results of PBT and vPvB assessment**

The product is not classified as PBT or vPvB.

**12.6. Endocrine disrupting properties**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**12.7. Other adverse effects**

not available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

08 01 12 waste paint and varnish other than those mentioned in 08 01 11

**SECTION 14: Transport information****14.1. UN number or ID number**

not subject to transport regulations

**14.2. UN proper shipping name**

not relevant

**14.3. Transport hazard class(es)**

not relevant



# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Inks 2701

Creation date	04th June 2013		
Revision date	13th June 2023	Version	8.0

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in Sections 4 to 8.

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million





# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Inks 2701

Creation date	04th June 2013		
Revision date	13th June 2023	Version	8.0

REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 8.0 replaces the SDS version from 24 March 2022. Changes were made in sections 1, 2, 12, 13, 15 and 16.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.